Using Pure to showcase and monitor research performance
the 4-year journey of Taipei Medical University, Taiwan

Presenter: Tzu-Heng Chiu
Director of Taipei Medical University Library
Outline

01 Introduction to TMU & TMU library

02 Implementation, maintenance & promotion of TMU’s Academic Hub

03 User experience survey

04 Achievement & future plan
Introduction to TMU & TMU library
About authors

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Taiwan

**INFOGRAPHICS**

1. Population: 23,427,785
2. Capital City: Taipei
3. Currency: Taiwan New Dollar (TWD)
4. Language: Taiwanese
5. Landmark: Taipei 101, Chiang Kai Shek Memorial Hall, National Palace Museum
Medical Schools in Taiwan

- 13 Medical Schools
- 1,300 Medical students per year
Taipei Medical University
TMU’S healthcare system

University

- Medicine (1960)
- Pharmacy (2000)
- Nursing (2000)
- Public Health (2000)
- General Education (2001)

(11 Colleges, a general education center)

- Medical Science Technology (2011)
- Humanities & Social Sciences (2011)
- Biomedical Engineering (2015)
- Management (2015)
- Nutrition (2016)
- Interdisciplinary Studies (2017)

- 16 Departments
- 41 Graduates
- 22 PhD Programs

6 Affiliated Hospitals

- TMU Hospital (1976)
- Wanfang Hospital (1996)
- Shuang Ho Hospital (2008)
- TMU Taipei Cancer Center (2013)
- Taipei Neuroscience Institute (2018)
- Hsin Kuo Min Hospital (2019)
## TMU’S healthcare system

### University

<table>
<thead>
<tr>
<th>Position</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty</td>
<td>670</td>
</tr>
<tr>
<td>Researchers</td>
<td>20</td>
</tr>
<tr>
<td>Administrative Staff</td>
<td>501</td>
</tr>
<tr>
<td>Post-Doc</td>
<td>70</td>
</tr>
<tr>
<td>Students</td>
<td>5,993</td>
</tr>
</tbody>
</table>

### 3 major Affiliated Hospitals

<table>
<thead>
<tr>
<th>Position</th>
<th>TMU Hospital</th>
<th>Shuang Ho Hospital</th>
<th>Wanfang Hospital</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Personnel</td>
<td>1,645</td>
<td>2,224</td>
<td>1,580</td>
</tr>
<tr>
<td>Researchers</td>
<td>11</td>
<td>17</td>
<td>20</td>
</tr>
<tr>
<td>Administrative Staff</td>
<td>629</td>
<td>608</td>
<td>710</td>
</tr>
</tbody>
</table>
Main library & hospital branches

Main library

Wanfang hospital branch

Shuang Ho hospital branch
Organizational chart

- **Library Director**
- **18 Librarians**
- **4 library assistants**
- **Temporary workers**
  - 11,000 hr/per year
Collection statistics

Resources Total Budget Ca. USD $2.6 Million

E-Resources 92%
Books 7%
Multimedia 1%

<table>
<thead>
<tr>
<th>Items</th>
<th>Volumes</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Books</td>
<td>134,816</td>
<td>155,155</td>
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<tr>
<td>Bound Periodicals</td>
<td>20,339</td>
<td></td>
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<td>Periodicals</td>
<td>480</td>
<td></td>
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<td>E-book</td>
<td>96,303</td>
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<td>E-journal</td>
<td>17,999</td>
<td></td>
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<td>Database</td>
<td>Chi. 51</td>
<td>130</td>
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<tr>
<td></td>
<td>Eng. 79</td>
<td></td>
</tr>
<tr>
<td>Multimedia</td>
<td>12,392</td>
<td></td>
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</table>

Date: 2020.8.31
Implementation, maintenance & promotion of TMU’s Academic Hub
TMU’s Goals of establishing an expert portal

1. Promote international academic collaboration
2. Analyze academic performance

- Integrate academic resources
- Institutional Repository
- Self-Archiving
- Value-added Services

Identify experts and their advantageous areas and strengths
Cross-office task force

- The Library was assigned to lead the task force, cooperating with:
  - Office of Human Resource
  - Office of Research and Development
  - Office of Information Technology
  - Core Facility Center
System establishment – includes
• Basic information for the faculty
• Scopus research output

System planning, evaluation, procurement

System launched

January 2016

Since 2016
• Information maintenance
• Publicity TMU Pure
Contents

Welcome to Taipei Medical University

Explore profiles, expertise and research at Taipei Medical University

Profiles  Research Units  Projects  Research Output

TMA HUB includes

Projects  Research Units  Research Output

Taipei Medical University (TMU) was founded in 1960 consisting of 11 research centers, a center for General Education, 11 colleges, as well as the affiliated TMU hospital, Wan Fang Medical Center and Shuang Ho Hospital. TMU offers a wide range of courses and degrees containing medicine, oral medicine, pharmacy, nursing, public health, nutrition, along with medical science and technology, humanities and social sciences, biomedical engineering, as well as management. This site highlights the publications of TMU's researchers, and it can be used to search for expertise, research units, research opportunities and collaborations.

TMU Pure Website: https://tmu.pure.elsevier.com/
Maintenance

- 1,330 Profiles: TMU faculty / physicians and researchers of 3 major affiliated hospitals
- 4 librarians to maintain and update records
- Schedule of data updating

<table>
<thead>
<tr>
<th>Data</th>
<th>Sources</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Faculty</td>
<td>Basic info, Papers</td>
<td>HR Office</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Monthly</td>
</tr>
<tr>
<td>Faculty</td>
<td>Articles, Conference papers,</td>
<td>Scopus – Author ID</td>
</tr>
<tr>
<td></td>
<td>Books</td>
<td>Faculty Publication List from TMU</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Monthly</td>
</tr>
<tr>
<td></td>
<td>Project</td>
<td>RD Office</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Quarterly</td>
</tr>
<tr>
<td></td>
<td>Award</td>
<td>RD Office</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Announcement from TMU</td>
</tr>
<tr>
<td></td>
<td>Administrative Experience</td>
<td>HR Office</td>
</tr>
</tbody>
</table>

19
Seminars & training sessions

University-level Seminar  Seminar for colleges  Training sessions for administrative staff

32 seminars & trainings, 380 attendants
700 publicity activities through emails, increase the utilization of TMU Academic Hub
Elsevier’s Pure supports Taipei Medical University’s growth ambitions

Find out how Pure is helping the institution to centrally administrate data collected from research reporting of colleges and research align research inform practice of international communities.

International promotion

TMU Case Study

- Social Media promotion
- Elsevier website
- Flyer

International Conference

Pure in their words - President Dr. Yun Yen, Taipei Medical University, Taiwan

Dr. Yun Yen, president of Taiwan’s highly ranked Taipei Medical University (TMU), explains how Pure has contributed towards building TMU’s excellence in research performance and global collaboration.
03 User experience survey
Survey time
February 26 to March 7, 2018

Questionnaires sent out: 1,160
TMU faculty, staff, and medical personnel and researchers of 3 major affiliated hospitals

Returned: 142
Response rate: 12%

SURVEY OF USER EXPERIENCE FOR
TMU ACADEMIC HUB / PURE EXPERT SYSTEM

Dear Professors & Staffs,

The TMU Library launched the service of “TMU Academic Hub / Pure Expert System” (TMU Academic Hub) in 2016, please share your experience on using TMU Academic Hub to provide us suggestions to improve our services. We sincerely hope that you can spend a few minutes on finishing this questionnaire.

* A 7-Eleven coffee coupon will be given after finishing this questionnaire.

Questionnaire (Click here) https://goo.gl/PHwZto

* Survey to 7th of March.
* Please log in the TMU e-mail before entering the survey.
* A 7-Eleven coffee coupon will be given from 19th March.

Contact person: Yu-Ying Lee | Email: yylee@tmu.edu.tw | Tel: 886-2-2736-1661 ext.2509
User behavior

Channels of getting to know TMU’s academic hub

- Promotion by the library: 71%
- Seminars organized for colleges and departments: 15%
- Via Library staff: 9%
- Others: 5%

Frequency of use

- Monthly: 42%
- Annually: 20%
- Weekly: 22%
- Daily: 1%
- Others: 4%
- Never: 11%
Use of TMU Academic Hub

Purposes of use

- Connect individuals of the academic tank with the majors of individuals: 10%
- Seek partners: 11%
- Statistics for the unit: 23%
- Inquire the data about the experts of the university: 37%
- Make resume: 14%
- Others: 1%
- Never: 4%
### Survey’s result – agreement of statements

<table>
<thead>
<tr>
<th>Agreement of statements</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>It visualizes the research achievements</td>
<td>4.15</td>
</tr>
<tr>
<td>It is convenient to look for experts of TMU</td>
<td>4.15</td>
</tr>
<tr>
<td>It is easy to use</td>
<td>4.02</td>
</tr>
<tr>
<td>It can analyze experts’ research topics</td>
<td>4.01</td>
</tr>
<tr>
<td>Expert profile is complete and informative</td>
<td>4.00</td>
</tr>
</tbody>
</table>
Agreement of statements

I think the expert profile is complete and informative

I think it visualizes the research achievements

I think it is convenient to look for experts of TMU

I think the it can analyze experts' research topics

I think it is easy to use
### Survey’s result – usage of features

<table>
<thead>
<tr>
<th>Usage of different features</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Please rate your usage ratio of the following TMU Academic Hub features</td>
<td></td>
</tr>
<tr>
<td>Overview</td>
<td>3.55</td>
</tr>
<tr>
<td>Research Output</td>
<td>3.51</td>
</tr>
<tr>
<td>Project</td>
<td>3.35</td>
</tr>
<tr>
<td>Network</td>
<td>3.31</td>
</tr>
<tr>
<td>Fingerprint</td>
<td>3.17</td>
</tr>
</tbody>
</table>
Usage of different features

**Overview**

- Always: 15%
- Often: 44%
- Neutral: 25%
- Rarely: 11%
- Never: 4%

**Fingerprint**

- Always: 10%
- Often: 30%
- Neutral: 35%
- Rarely: 20%
- Never: 6%

**Research Output**

- Often: 39%
- Neutral: 27%
- Rarely: 17%

**Project**

- Often: 41%
- Neutral: 29%
- Rarely: 10%

**Network**

- Often: 39%
- Neutral: 32%
- Rarely: 9%
### Survey’s result – Satisfaction of features

Please rate the satisfactory of the following TMU Academic Hub features:

<table>
<thead>
<tr>
<th>Satisfaction of features</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Presentation</td>
<td>4.02</td>
</tr>
<tr>
<td>Overall Satisfaction</td>
<td>4.01</td>
</tr>
<tr>
<td>Accessibility</td>
<td>3.99</td>
</tr>
<tr>
<td>Data Completeness</td>
<td>3.86</td>
</tr>
<tr>
<td>Data Accuracy</td>
<td>3.87</td>
</tr>
</tbody>
</table>
Satisfaction of features

Overall Satisfaction

Data Completeness

Accessibility

Data Presentation

Data Accuracy

Very Satisfied | Satisfied | Neutral | Dissatisfied | Very Dissatisfied
---|---|---|---|---
Very Satisfied | 21% | 59% | 20% | 0% | 0%
Neutral | 0% | 0% | Very Satisfied | 0% | 0%
Dissatisfied | 19% | 17% | 0% | 0% | 0%
Very Dissatisfied | 0% | 0% | 0% | 0% | 0%

Satisfaction

Data Completeness

Accessibility

Data Accuracy

Overall Satisfaction

Data Presentation

Data Accuracy
Action plan (after the survey)

• Improve the efficiency and accuracy of data import
  – Establish the ORCID ID for each profile
  – Cooperate with the HR office to get new faculty information on time
  – Ask IT office to update research project data every six months
• Promote ‘Search specific topic experts’
• Hold ‘check your profile’ activity every semester
‘Search specific topic experts’ (2019)

Reasons for use this feature

- Understand TMU and International Researchers’ Topic: 38%
- Find specific experts for work: 24%
- Seek for specific experts’ research output: 6%
- Search opportunities for international collaboration: 32%

Satisfaction

- Yes, 95%
- NO: 5%
04 Achievement & future plan
Showcase and monitor research performance

Import Data
- Scopus
  - TMU’s Faculty Publication List
  - TMU’s Project System

Showcase Research Visibility
- TMU PURE EXPERTS

Monitor Research Performance
- Scholarly Output
  - FWCI, Citation number
- Intl co-authorship
  - Industry-academia collaboration
Usage of the TMU Pure

Page Views
Established in 2016
Views achieved in September, 2020

TMU Academic Hub Page Views Every Half Year

Users From Different Countries

<table>
<thead>
<tr>
<th>国家/地區</th>
<th>% 使用者</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taiwan</td>
<td>61.90%</td>
</tr>
<tr>
<td>United States</td>
<td>17.42%</td>
</tr>
<tr>
<td>China</td>
<td>4.26%</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>2.30%</td>
</tr>
<tr>
<td>India</td>
<td>1.81%</td>
</tr>
</tbody>
</table>
TMU’s academic performance

QS 2021 QS World University Rankings
2020 QS University Rankings Asia
Ranked 387th

QS 2020 QS University Rankings
2021 WORLD University Ranking
Ranked 74th

THE 2020 ASIA University Ranking
Ranked 303th

THE ESI Selected Fields in 2020
Ranked 35th

ESI 7 of TMU’s research fields placed in the top 1% in the world

Global Vision Mag
Ranked Top Taiwan University in 2020

Ranked 1st among Taiwan’s universities in Medicine Field
Future plan

Innovative university

Increase Industry-Academia Collaboration

• Import Patent Data
• Import Industry-Academia Projects
• Publicize TMU Pure for related collaborators
• Hold Seminars for related collaborators

Cooperate with Business Development
Thank you!

Q & A