Introduction to Digital Fujikawa –History of Medicine in Japan–

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Fujikawa Collection and Motivation

Fujikawa Collection

- The collection is comprised of about 9,000 books formerly held by Dr. Yu Fujikawa (1865-1940)
- Books had been collected for his masterpiece "History of Medicine in Japan"

Books are separately stored in different institutions
→ Can we bring them to one place in digital space?

Yearbook of the 14th class, Keio University School of Medicine (1936)
Launch of Digital Fujikawa

Project: Digital Fujikawa -History of Medicine in Japan-
Kyoto Univ. Library Network × Keio Univ. Media Center

- **Goal I**: contribute to the development of the research in the history of medicine in Japan by providing the comprehensive view of the Fujikawa Collection

- **Goal II**: provide a showcase of digital unification utilizing IIIF to community

In September 2018, we launched the beta version
Number of Books / Acknowledgement

• Number of books: 5,665 books
  • Kyoto University: 4,711 books
  • Keio University: 782 books
  • The University of Tokyo: 172 books

• Acknowledgement for digitization
  • 「京都大学附属図書館所蔵『富士川文庫』保存・公開のための修復・電子化事業-わが国の医学の歴史を俯瞰する研究基盤構築のために-（機能強化経費）」 by MEXT
  • "Project to Build an International Collaborative Research Network for Pre-modern Japanese Texts (NIJL-NW project)" led by the National Institute of Japanese Literature
  • Kyoto University Open Access Promotion Project
  • Keio University Media Center (ordinary expenses)

Books from the University of Tokyo are added in February, 2019
Implementation [1/3]

Lightweight implementation
Since we can access to the server only via ftp, we do not use any software. Instead, we add functions by JavaScript.

• We show title, author, publication year, and holding institution of books at each row of HTML table

• We add search function and sort function to HTML table using DataTables, which is a JQuery plugin
Implementation [2/3]

Digital Fujikawa - History of Medicine in Japan- (Beta ver.)

The Digital Fujikawa is a project which has been jointly launched by Kyoto University Library Network and Keio University Media Center. The project intends to contribute to the development of the research in the history of medicine in Japan by providing the comprehensive view of the Fujikawa Collection that has been physically distributed over different institutions using IIIF (International Interoperability Image Framework).

<table>
<thead>
<tr>
<th>Title (original)</th>
<th>Title (kana)</th>
<th>Title (romanization)</th>
<th>Author</th>
<th>Year</th>
<th>Library</th>
</tr>
</thead>
<tbody>
<tr>
<td>医学教育</td>
<td>イガク イロハ</td>
<td>Igaku iroha</td>
<td>石心子著</td>
<td>京都</td>
<td>![image]</td>
</tr>
<tr>
<td>医学温古弁2巻</td>
<td>イガク イロハ</td>
<td>Igaku iroha</td>
<td>石心子著</td>
<td>京都</td>
<td>![image]</td>
</tr>
<tr>
<td>医学 Credentials</td>
<td>イガク カイテイ</td>
<td>Igaku kaitei</td>
<td>向田統(志摩)著</td>
<td>京都</td>
<td>![image]</td>
</tr>
<tr>
<td>醫療管理. 総目</td>
<td>イガク カンスイ</td>
<td>Igaku kansui</td>
<td>山田, 業廣</td>
<td>慶應</td>
<td>![image]</td>
</tr>
<tr>
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<td>Igaku kansui</td>
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<td>Igaku kansui</td>
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<td>慶應</td>
<td>![image]</td>
</tr>
<tr>
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<td>イガク カンスイ</td>
<td>Igaku kansui</td>
<td>山田, 業廣</td>
<td>慶應</td>
<td>![image]</td>
</tr>
</tbody>
</table>

Keyword search: search over titles (original, kana, roman), author, publication year, holding institution

Sort function

Link to bibliography page

IIIF Manifest
Universal Viewer
Mirador
IIIF Curation Viewer

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Implementation [3/3]

Integrated search portal shortens distance between books on digital space and makes such comparison easy.
Influence from Digitization

<table>
<thead>
<tr>
<th></th>
<th>FY2014</th>
<th>FY2015</th>
<th>FY2016</th>
<th>FY2017</th>
<th>FY2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Kawai</td>
<td>1,113</td>
<td>202</td>
<td>312</td>
<td>Otsuka</td>
</tr>
<tr>
<td>2</td>
<td>Fujikawa</td>
<td>284</td>
<td>Fujikawa</td>
<td>170</td>
<td>Others</td>
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<tr>
<td>3</td>
<td>Others</td>
<td>97</td>
<td>Kawai</td>
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<td>Fujikawa</td>
</tr>
<tr>
<td>4</td>
<td>Tanimura</td>
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<td>Nakai</td>
<td>57</td>
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</tr>
<tr>
<td>5</td>
<td>Kikutei</td>
<td>52</td>
<td>Others</td>
<td>55</td>
<td>Seike</td>
</tr>
<tr>
<td>total</td>
<td>1812</td>
<td>total</td>
<td>903</td>
<td>total</td>
<td>1,088</td>
</tr>
</tbody>
</table>

The total number of appointments has decreased

The Fujikawa collection dropped out of the top five, due to its availability on the web (?)
Usage and Challenges

• Digital Fujikawa enables direct accesses to images via links to image viewers, but users access via bibliography pages
  • Probably users do not understand image viewer icons

Users prefer bibliography links to viewer icons

Users do not understand these icons

In order to make the best use of benefits and advantages of IIIF, it is necessary to educate users
Future Directions

• Increase digital images and participating institutions

• Develop new functions that support researchers and make this project from the current trial phase to a full-scale phase by the end of FY2020
Thank you