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Introduction to Digital Fujikawa –History of Medicine in Japan–

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京都大学
KYOTO UNIVERSITY



慶應義塾
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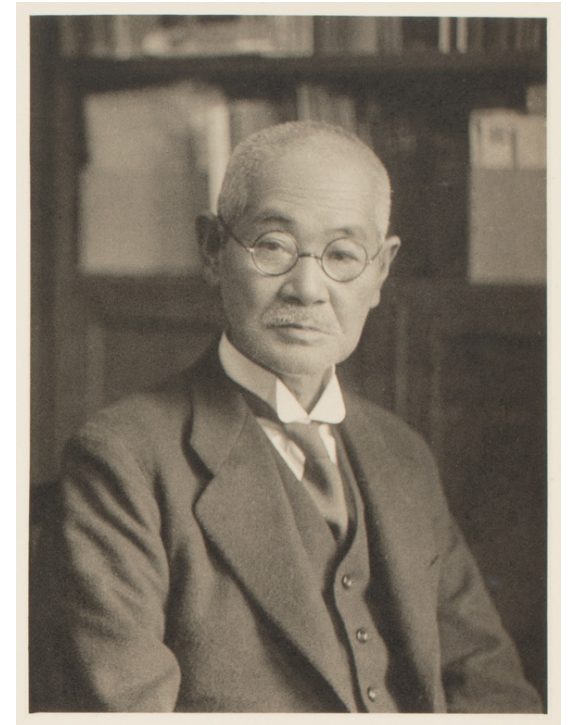
Fujikawa Collection and Motivation

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 IIF to community

In September 2018, we launched the beta version

http://www.kulib.kyoto-u.ac.jp/rdl/digital_fujikawa/en/index.html

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

Books from the University of Tokyo are added in February, 2019

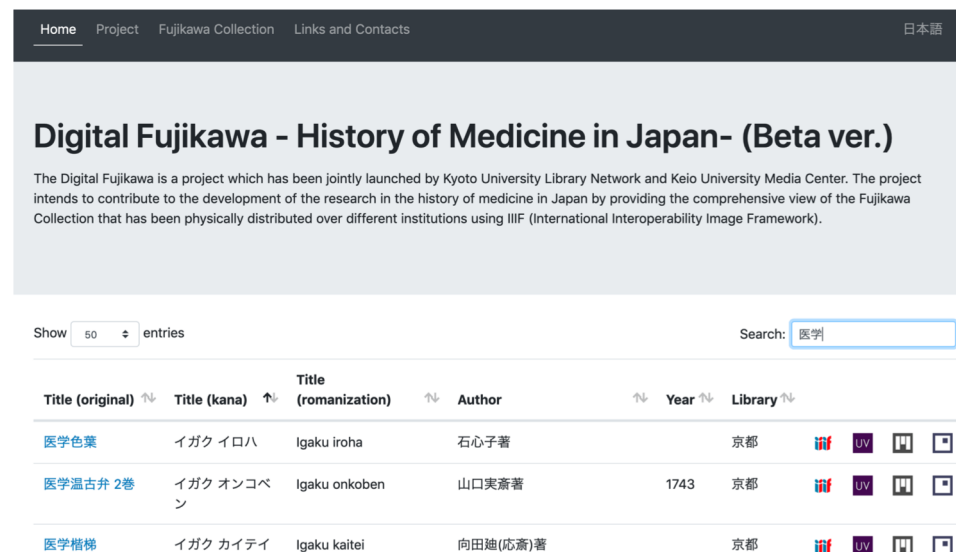
- Acknowledgement for digitization
 - 「京都大学附属図書館所蔵『富士川文庫』保存・公開のための修復・電子化事業-わが国の医学の歴史を俯瞰する研究基盤構築のために-(機能強化経費)」 by MEXT
 - "Project to Build an International Collaborative Research Network for Pre-modern Japanese Texts (NIJL-NW project)" led by the National Institute of Japanese Literature
 - Kyoto University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

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



The screenshot shows the 'Digital Fujikawa - History of Medicine in Japan- (Beta ver.)' website. It features a navigation bar with 'Home', 'Project', 'Fujikawa Collection', and 'Links and Contacts'. A search bar contains the text '医学'. Below the search bar is a table with columns for 'Title (original)', 'Title (kana)', 'Title (romanization)', 'Author', 'Year', and 'Library'. The table lists three books: '医学色葉', '医学温古井 2巻', and '医学楷梯'. Each row includes a link to the book's page and icons for IIF, UV, and other services.

Title (original) ↑↓	Title (kana) ↑↓	Title (romanization) ↑↓	Author	Year ↑↓	Library ↑↓
医学色葉	イガク イロハ	Igaku iroha	石心子著		京都    
医学温古井 2巻	イガク オンコベン	Igaku onkobon	山口実齋著	1743	京都    
医学楷梯	イガク カイテイ	Igaku kaitei	向田雄(応齋)著		京都    

Implementation [2/3]

Home Project Fujikawa Collection Links and Contacts 日本語

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 IIF (International Interoperability Image Framework).

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

Show 50 entries

Search: 医学

Sort function

Title (original) ↕	Title (kana) ↕	Title (romanization) ↕	Author ↕	Year ↕	Library ↕
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医学色葉	イガク イロハ	Igaku iroha	石心子著	京都	
医学温古弁 2巻	イガク オンコベン	Igaku onkoban	山田業廣	慶應	
医学楷梯	イガク カイテイ	Igaku kaitei	向田迪(応齋)著	京都	
醫學管鑑. 總目	イガク カンスイ	Igaku kansui	山田, 業廣	慶應	
醫學管鑑. 内集. 十三	イガク カンスイ	Igaku kansui	山田, 業廣	慶應	
醫學管鑑. 内集. 十五	イガク カンスイ	Igaku kansui	山田, 業廣	慶應	
醫學管鑑. 内集. 一	イガク カンスイ	Igaku kansui	山田, 業廣	慶應	

Link to bibliography page

IIF Manifest
Universal Viewer
Mirador
IIF Curation Viewer

Implementation [3/3]

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



Influence from Digitization

Number of appointments to access to each collection per financial year

	FY2014		FY2015		FY2016		FY2017		FY2018	
1	Kawai	1,113	Tanimura	202	Otsuka	312	Otsuka	312	Otsuka	139
2	Fujikawa	284	Fujikawa	170	Others	142	Others	142	Others	70
3	Others	97	Kawai	131	Fujikawa	136	Fujikawa	136	Zokyo	34
4	Tanimura	64	Nakai	57	Tanimura	89	Tanimura	89	Kawai	28
5	Kikutei	52	Others	55	Seike	58	Seike	58	Tanimura	22
	total	1812	total	903	total	1,088	total	903	total	363

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 IIF, 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