Digital Commons Annual Report
System Library Services
Providence
2021

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Overview (Digital Commons and Expert Gallery Platforms)

In 2021, Providence Digital Commons maintained steady growth collecting materials and building new collections. Notably, Digital Commons has received increased global usage across 158 countries. Repository usage grew 33.6% from 2020-2021.

Publications by Clinical Institute

Collected publications surpassed the year-end outstanding metric target designated by System Research (1,650) with a year-end total of 1,780 submissions.
Readership Distribution
Global readership indicates the potential reach and impact of materials held in Digital Commons. 2021 held wide-ranging distribution of readership and interaction. Institutional access, both internal at Providence and from external users, was diverse.
Repository items were accessed by readers from 158 countries around the world. Top 10 countries with interaction:

**Top 10 countries by download**

- United States - 18,434
- China - 3,068
- India - 912
- United Kingdom - 905
- Canada - 791
- Australia - 597
- Russian Federation - 433
- Netherlands - 391
- Germany - 376
- Republic of Korea - 375

*not all material records in Digital Commons have downloadable content; only 20% of records include downloadable files*

Jan - Dec 2021 Downloads
33,806

Jan - Dec 2021 Metadata Page Hits
36,730
PlumX Altmetrics

Digital Commons includes PlumX Metrics*, which allows us to see how users interact with our research items. PlumX collects internal and external data, to display how wide-reaching our research materials are.

The top five highest performing articles in each PlumX metric category were (titles highlighted in green were high-performers in multiple categories):

<table>
<thead>
<tr>
<th>Usage (abstract views/downloads/full text views/link outs/plays)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Health Practices, Social Media Use, and Mental Well-Being Among Teens and Young Adults in the U.S.</td>
<td>20845</td>
</tr>
<tr>
<td>Minimally Invasive Lung Cancer Surgery Performed by Thoracic Surgeons as Effective as Thoracotomy.</td>
<td>12705</td>
</tr>
</tbody>
</table>
Counseling Pregnant Women Who May Deliver Extremely Premature Infants: Medical Care Guidelines, Family Choices, and Neonatal Outcomes 9569

Are you still on the fence about wearing a mask? 9269

Sex-specific associations of maternal birthweight with offspring birthweight in the Omega study. 7437

Citations (including clinical and policy citations)

First Case of 2019 Novel Coronavirus in the United States 3001

Nivolumab in patients with advanced hepatocellular carcinoma (CheckMate 040): an open-label, non-comparative, phase 1/2 dose escalation and expansion trial. 2766


Covid-19 in Critically Ill Patients in the Seattle Region — Case Series 1275

Trastuzumab Emtansine for Residual Invasive HER2-Positive Breast Cancer. 664

Captures (saves/bookmarks)

Covid-19 in Critically Ill Patients in the Seattle Region — Case Series 2164

Nivolumab in patients with advanced hepatocellular carcinoma (CheckMate 040): an open-label, non-comparative, phase 1/2 dose escalation and expansion trial. 1462

Genetic meta-analysis of diagnosed Alzheimer’s disease identifies new risk loci and implicates Aβ, tau, immunity and lipid processing. 1241

Neonatal Neuroprotection: Bringing Best Practice to the Bedside in the NICU. 1126

Conserved cell types with divergent features in human versus mouse cortex. 1103

Mentions (news mentions/blogs/references)


First Case of 2019 Novel Coronavirus in the United States 840

Covid-19 in Critically Ill Patients in the Seattle Region — Case Series 216

Multiscale Analysis of Independent Alzheimer’s Cohorts Finds Disruption of Molecular, Genetic, and Clinical Networks by Human Herpesvirus. 205

Conserved cell types with divergent features in human versus mouse cortex. 115

Social Media (Facebook count/likes/tweets)

First Case of 2019 Novel Coronavirus in the United States 63424

Remdesivir for the Treatment of Covid-19 — Final Report 42866

Sodium-Glucose Cotransporter 2 Inhibition and Diabetic Kidney Disease. 11688

A History of Orthognathic Surgery in North America. 11542

Utilization of the validated Psoriasis Epidemiology Screening Tool (PEST) to identify signs and symptoms of psoriatic arthritis among those with psoriasis: a cross-sectional analysis from the US-based Corrona Psoriasis Registry. 11537

*PlumX Metrics only collects all time data, and does not filter metrics by timeframe. All data listed is all time data since the establishment of the Providence Digital Commons (2018-current).

Regional Research

Breakdown of Providence research materials by region.

Numbers may vary from annual total publications based on breakdown of single and shared authorship/multiple authors from different regions within Providence.
### Noteworthy Projects

In 2021, Digital Commons focused on easing the submission process and created a new, robust system for tracking research by region. Library staff and system research identified a breakdown of regional locations and key-player-locations (institutions within the organization that are frequently affiliated to).

Researchers could also begin submitting materials using the [Digital Commons Submission Form](#), creating a streamlined experience both for users and library staff.

- To create a more organized platform, Digital Commons built special regional collections, research collections, and conference collections, totaling 38 new collections:
  - List of Region and Institution Collections
  - Swedish Neuroscience Institute

<table>
<thead>
<tr>
<th>Region</th>
<th>Number of Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Washington</td>
<td>813 publications</td>
</tr>
<tr>
<td>Oregon</td>
<td>545 publications</td>
</tr>
<tr>
<td>California</td>
<td>301 publications</td>
</tr>
<tr>
<td>System*</td>
<td>62 publications</td>
</tr>
<tr>
<td>Texas/New Mexico</td>
<td>44 publications</td>
</tr>
<tr>
<td>Montana</td>
<td>31 publications</td>
</tr>
<tr>
<td>Alaska</td>
<td>25 publications</td>
</tr>
</tbody>
</table>

*System tagged publications had authors affiliated at the top organizational level, without a more specific region.*
• Swedish Heart and Vascular Institute
• Swedish Cancer Institute
• Saint John’s Cancer Institute (JWCI)
• Pacific Neuroscience Institute
• Center for Outcomes Research and Education (CORE)
• Oregon Academic Achievement Day, 2021
• St. Joseph Hospital EBP Conference, 2021

**Internal Presentations and External Conferences**

Digital Commons statistics and flexible database structure was leveraged in multiple meetings as valuable tools for research and readership tracking and departmental report-outs.

Library staff continued system-wide partnerships through outreach and participation in research councils, giving 23 internal presentations and conversations on Digital Commons.

Library Director Heather J. Martin and Digital Asset Librarian Amanda Schwartz presented and published on Digital Commons and Providence research at the 2021 Medical Institutional Repositories in Libraries (MIRL) Symposium:

- *Finding Our Stride: A Health System Repository 4 Years In / Providence Patents: Using an Institutional Repository to Promote Technology Transfer*