

**Supplementary Table 1.** Analysis of articles according to document types, authors, languages, funding agencies, and affiliations

Document Types	Record Count	% of 1440
Original Article	549	38.125
Meeting Abstract	477	33.125
Proceeding Paper	169	11.736
Review Article	132	9.167
Editorial Material	83	5.764
Early Access	25	1.736
Letter	25	1.736
Book Chapters	11	0.764
<b>Authors</b>		
Pantanowitz L	39	2.708
Treanor D	38	2.639
Madabhushi A	30	2.083
Parwani A	27	1.875
Parwani AV	24	1.667
Hanna MG	22	1.528
Verrill C	22	1.528
Browning L	19	1.319
<b>Languages</b>		
English	1403	97.431
German	28	1.944
Spanish	4	0.278
Norwegian	2	0.139
Chinese	1	0.069
French	1	0.069
Turkish	1	0.069
Browning L	19	1.319
<b>Funding Agencies</b>		
National Institutes of Health USA	96	6.667
United States Department of Health Human Services	96	6.667
National Cancer Institute	55	3.819
UK Research Innovation	32	2.222
National Natural Science Foundation of China	30	2.083
European Union	26	1.806
Medical Research Council UK	21	1.458
National Institutes of Health Research	17	1.181
<b>Affiliations</b>		
Pennsylvania Commonwealth System of Higher Education	74	5.139
University System of Ohio	74	5.139
University of Pittsburgh	66	4.583
Harvard University	57	3.958
University of Leeds	45	3.125
University of California System	41	2.847
Case Western Reserve University	37	2.569
Ohio State University	36	2.500

\* Top 10 cited articles on digital pathology are summarized in Supplementary Table 2

**Supplementary Table 2.** Summary of the top ten cited articles on digital pathology

Article Information	Category	Country	Number of Citations	Summary
Kaustav Bera et al. Artificial intelligence in digital pathology - new tools for diagnosis and precision oncology Nature Reviews Clinical Oncology	Review	USA	681	A review explaining benefits of a combination of digital pathology and artificial intelligence in cancer diagnosis and prediction of cancer prognosis.
Anantet Madabhushi et al. Image analysis and machine learning in digital pathology: Challenges and opportunities Medical Image Analysis	Review	USA	555	A review on necessity of transformation of pathology from conventional methods to digital platform-despite its difficulties in practice.
Muhammad Khalid Khan Niazi et al. Digital pathology and artificial intelligence Lancet Oncology	Original article	USA	531	A review on critical role that digital pathology and artificial intelligence will play in the future.
Farzad Ghaznavi et al. Digital Imaging in Pathology: Whole-Slide Imaging and Beyond Annual Review of Pathology: Mechanisms of Disease	Review	Canada	290	A review on use of computational algorithms developed for cytometric analysis of cells and proteins in subcellular locations by use of multiplexed antibody staining protocols.
Shaimaa Al-Janabi et al. Digital pathology: current status and future perspectives Histopathology	Review	Netherlands	235	In this article, it is reported that digital slides are used in pathology for education, diagnostic purposes and archiving. Despite challenges such as storage of large files, image processing techniques can be applied to whole slide images and assist pathologists in making diagnosis.
Esther Abels et al. Computational pathology definitions, best practices, and recommendations for regulatory guidance: a white paper from the Digital Pathology Association Journal of Pathology	Review	USA	211	A review from Digital Pathology Association focusing on history, solutions to problems about digital pathology, use of digital pathology in combination with artificial intelligence and deep learning, ethical issues and cyber security. The group recommend regulators and vendors to work together to set standards and increase interoperability of computational pathology infrastructure components and software.
Pegah Khosravi et al. Deep Convolutional Neural Networks Enable Discrimination of Heterogeneous Digital Pathology Images EBioMedicine	Original Article	USA	204	The authors present a novel pipeline that can be used as a component of digital pathology. Its accuracy was found to be 100%, 92%, 95%, and 69% for discrimination of various cancer tissues, subtypes, biomarkers, and scores.
Bastiaan S. Veeling et al. Rotation Equivariant CNNs for Digital Pathology Medical Image Computing and Computer Assisted Intervention	Original Article	Netherlands	186	A novel histopathology patch-classic cation model that outperforms a competitive traditional CNN by enforcing rotation and reflection equivariance is proposed. A derived patch-level dataset is presented, allowing straightforward and precise evaluation on a challenging histopathology task.
Mark D. Zarella et al. A Practical Guide to Whole Slide Imaging A White Paper From the Digital Pathology Association Archives of Pathology & Laboratory Medicine	Review	USA	177	A review on utilization of whole slide imaging technology along with applications in order to support pathology practice, medical education and collaboration.