2020 Synapse Publications Report
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Using the Navigation:
Introduction

Welcome to the 2020 Synapse Publications Report! This is our fifth annual report and I am delighted that we can showcase the research contributions to an ever-growing body of scientific knowledge attributed to Memorial Sloan Kettering Cancer Center.

Researchers have been at the center of the pandemic, focused on identifying ways in which to manage treatment and the virus’ impact. Within this report is a special section devoted to our MSK authors and their works on COVID-19.

This year we also redefined our document publication types and moving forward, users will be able to see a higher level of granularity when it comes to these publications (e.g. Editorial, Guidelines, Research Letter, etc.).

As of July 2021, Synapse contained over 90,290 entries [references] dating back to 1987, embodying 16,882 (current and former employees) author profiles, and we will continue to add entries to include both current and retrospective content. As a public-facing resource, Synapse is the authoritative bibliographic database developed and maintained by a skilled team of information professionals led by Jeanine McSweeney, Associate Librarian, Scholarly Communications.

I hope this report will provide readers with a sense of the volume of works written, spanning over 940 research and medical journal titles for this time period, as well as, the commitment required to maintain this valuable resource.

Donna Gibson
Director of Library Services
Introduction

About Synapse

Synapse is a collection of author profiles providing access to publications that are the result of research conducted at Memorial Sloan Kettering. The MSK Library developed Synapse in order to increase the visibility of and promote the work and collaboration of MSK researchers, clinicians, nurses, and healthcare professionals, ensuring that their publications are discoverable.

To populate Synapse, the following commercial databases are searched for publications with an affiliation of “Memorial Sloan Kettering Cancer Center” and other name variations:

- Scopus – science, technology, medicine, social science, and arts & humanities
- Web of Science – biochemistry, biology, biotechnology, chemistry, medicine, neuroscience, oncology, pediatrics, pharmacology, psychiatry, & surgery
- BIOSIS Citation Index – biochemistry, bioengineering, biology, biotechnology, life sciences, sciences, medicine, psychology, & life science
- CINAHL – nursing and allied health
- PsycINFO – psychology & related disciplines

Librarians then manually vet each record to eliminate duplicates, verify citation details, add identifiers (DOI, PMID, PMCID), standardize metadata, and identify the appropriate MSK authors. New content is added monthly, excluding in-press, epub, and online before print articles. Retrospective content dating back to 1884 is scheduled for inclusion. As of May 25, 2021, Synapse contains content dating back to 1987.

2020 WORKS (5,308)

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1,663 (70%) of 2020 journal articles in Synapse are NIH funded*

*As of April 26, 2021. Only peer-reviewed articles are required to cite NIH funding. In Synapse, “journal articles” may include some non-peer-reviewed papers.
Introduction

Highlighting MSK COVID-19 Publications

On March 11, 2020, the World Health Organization (WHO) declared COVID-19 a global pandemic. At this time, we witnessed researchers moving swiftly to share their preliminary COVID research on preprint servers and journal publishers were processing manuscripts from submission to publication in record times. Much of this research was also made available as open access, removing barriers to COVID information that would have previously only been accessible via paid subscriptions. This led to massive data sharing at an international level, facilitating scientific discovery and problem solving during an unprecedented health crisis.

The rate of research publications skyrocketed as the scientific community focused their attention on better understanding this virus and its impact.

A PubMed search revealed that looking for only 2020 COVID publications, there were 85,871 results. In comparison, as of June 25, 2021, LitCovid, from the National Library of Medicine, a curated literature resource for tracking up-to-date scientific information about the 2019 novel Coronavirus, can connect users to over 143,058 papers in PubMed. The number of these subject-specific papers continues to grow as new research is published.

MSK authors contributed to the body of COVID-19 research and in 2020 were affiliated with 217 published works. A search in the commercial database Scopus (search conducted on 6/24/21), further identified that 2020 MSK-authored COVID-19 publications were cited a total of 4,465 times by other researchers. Citation counts can be useful in gauging the quality of the research publication, its scientific impact and relevance.

View COVID-19 works by MSK authors: synapse.mskcc.org/synapse/covid_19.

REFERENCES:


2020 MSK COVID PUBLICATIONS

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Rise of Preprint Servers During the Pandemic

The number of preprints escalated during the pandemic and represented one way in which scientists could disseminate their research findings quickly. By definition, a preprint is a draft manuscript that is shared publicly (often via a preprint server) before it has been peer reviewed. In addition, the National Institutes of Health (NIH) Preprint Pilot, a project of the National Library of Medicine, included references to NIH-funded preprints in PubMed to further expose these research findings and increase their discoverability.

MSK Librarians decided to explore their understanding of health science preprint server posting adoption by analyzing the 2020 research manuscripts related to COVID-19 submitted to preprint servers by MSK researchers. The results of this research produced a poster that was shared at the Medical Library Association Virtual Conference in May 2021.

Preprints and COVID-19: Analysis of 2020 Pandemic-related Works from a Single Institution

Konstantina Matoukas, MLS; Jeanine McSweeney, MLS; Donna Gibson, MLS; Robin O’Hantoon, MS; Marina Chilo, MLS; Johanna Goldberg, MLSIS; Lindsay Boyce, MLS;

Preprint Server Choice

Fig 1. Preprint Server Choice

Preprint Indexing, Publication & Linking

Fig 2. Preprint Indexing, Publication & Linking

Time from Preprint to Journal Article

Fig 3. Time from Preprint to Journal Article

Citations to Preprints by PubMed Indexing

Fig 4. Citations to Preprints by PubMed Indexing

References


Click to view larger image: library.mskcc.org/blog/wp-content/uploads/2021/06/MLA2021_Poster_PreprintsAndCOVID.pdf
We will continue to filter meeting abstracts, conference papers, book chapters, and whole books as before. The new formats or publication types are defined as follows:

**CORRESPONDENCE**

Letters to the editor, replies, and other items included in the correspondence sections of journals.

**EDITORIAL**

Editorials, viewpoints, commentaries, and other opinion type pieces published in journals. Also includes meeting summaries and sections of a journal typically authored by the editorial board, such as the preface or introduction to a special issue.

**GUIDELINES**

A set of guidelines/recommendations written on behalf of a professional group or society. May also be called a consensus statement. Examples include guidelines and related updates provided by the National Comprehensive Cancer Network.

**JOURNAL ARTICLE**

Presentation of original research investigations that are likely, but not always, peer-reviewed. This category includes studies such as: clinical trials, case reports, brief reports, meta-analyses, laboratory investigations, retrospective analyses, CME activities, and white papers. This category also includes book sections published in an ongoing monographic series, such as *Methods in Molecular Biology*.

**MISCELLANEOUS**

Items that do not fall within other categories such as: book reviews, interviews, obituaries, debates, podcasts etc. These works are usually not peer-reviewed.

**RESEARCH LETTER**

Original research presented in journals as correspondence.

**REVIEW**

Comprehensive literature, topic, or subject summaries, including systematic reviews.
People

Top Authors

The top 10 prolific authors of 2020 (based on total # of 2020 publications), include:

- **Jorge S. Reis-Filho, MD, PhD, FRCPath**
  Pathologist, Chief, Experimental Pathology Service
  83 publications

- **Miguel-Angel Perales, MD**
  Medical Oncologist, Chief, Adult Bone Marrow Transplant Service
  82 publications

- **Alexander Drilon, MD**
  Medical Oncologist, Chief, Early Drug Development
  80 publications

- **Britta Weigelt, PhD**
  Research Scientist, Director, Gynecology DMT Research Laboratory
  76 publications

- **Sergio A. Giralt, MD**
  Hematologic Oncologist, Deputy Division Head, Division of Hematologic Malignancies; Melvin Berlin Family Chair in Multiple Myeloma
  75 publications

- **Nadeem R. Abu-Rustum, MD, FACOG, FACS**
  Surgeon, Chief, Gynecology Service; Vice Chair for Technology Development, Department of Surgery; Avon Chair in Gynecologic Oncology
  72 publications

- **Eileen O’Reilly, MD**
  Medical Oncologist, Winthrop Rockefeller Endowed Chair in Medical Oncology; Co-Director, Medical Initiatives, David M. Rubenstein Center for Pancreatic Cancer Research; Section Head, Hepatopancreaticobiliary & Neuroendocrine Cancers
  69 publications

- **Mark E. Robson, MD**
  Medical Oncologist, Chief, Breast Medicine Service
  65 publications

- **Robert J. Motzer, MD**
  Medical Oncologist, Kidney Cancer Section Head, Genitourinary Oncology Service; Jack and Dorothy Byrne Chair in Clinical Oncology
  64 publications

- **Marc Ladanyi, MD**
  Pathologist, Chief, Molecular Diagnostics Service; William J. Ruane Chair in Molecular Oncology
  63 publications
New Authors

As new works are added to Synapse, the Synapse team consults the original published documents to find out which authors list MSK as an affiliation. We then use resources provided by Human Resources to identify which employees match each of the named authors.

When a match is confirmed, we “verify” the author on the work so that it becomes linked to the author’s profile page. New authors may be discovered at this point, and if so, profile pages are created and the author is notified by email.

In 2020, Synapse profiles were created for the following MSK employees (603):

Acevedo, Barbara
Medicine

Ackerman, Kathleen
Nursing

Adhali, Omkar
Pathology

Agarunov, Aaron
Pathology

Aiken, William Nathan
Biostat/Epidemiology

Ainbinder, Jill Marie
Breast and Imaging Center (BAIC)

Akella, Naga Ravi Shankar
Digital Enterprise

Alano, Tina M
Nursing

Alexeeva, Vera
Immunology

Amirnia, Farnia
Medicine

Amor Vegas, Corina
GSK Graduate Student

Andersen, Laurie
Psychosocial Support

Anthony, Venice
Breast and Imaging Center (BAIC)

Antonelli, Anthony Claude
Graduate Studies

Aragon Sanabria, Virginia
SKI Radiology

Araji, Abdallah A
Radiology

Ardizzone, Laura
Anesthesiology

Ardon, Orly
Pathology

Arenas, Elizabeth
Nursing

Arenas, Javiera
Strategy and Innovation

Aretz, Zita
Graduate Studies

Aristophanous, Michalis
Medical Physics

Ashok, Soumya
Graduate Staff

Atlas, Kathleen Rena
Medicine

Attalla, Kyrollis
Graduate Staff

Aufero, Mariano
GSK Graduate Student

Avutu, Viswajee
Graduate Staff

Badson, Sandy T
Information Systems

Bahadur, Nadia Sadie
Health Informatics

Baine, Marina K
Graduate Staff

Bajwa, Raazi
Radiology

Banerjee, Diya
Psychiatry Service

Banks, Lauren Baker
Graduate Staff

Barbee, Jada
Pathology

Barber, Thomas Clark
Surgery

Bardot, Evan Stone
Developmental Biology

Bartelstein, Meredith
Surgery

Barzola, Melissa Ann
LD - Advanced Practice Providers

Baselice, Stephanie L.
Anesthesiology

Bass, Anne Ruth
Medicine

Beatson, Meghan
Elizabeth
Graduate Staff

Beattie, Jason Anthony
Medicine

Beberntz, Christina
Elizabeth
Graduate Studies

Boyer, Jacob Andrew
GSK Graduate Student

Bozza, Alexis N.
Neurology

Bragton, Kenya
Francinac
SKI Surgery

Britten, Christopher
Aaron
Developmental Biology

Brooks, Eric Robert
Developmental Biology

Bellamy, Michael B.
Medical Physics

Bellia, Phyllis
David H. Koch Center, Nursing

Benbarche, Salima
Human Oncology and Pathogenesis Program

Bernardes, Marilia
Graduate Staff

Bethusamy, Shantha
Health Informatics

Bhushet Nagesh, Prashanth Kumar
Molecular Pharmacology Program

Bian, Yu
SKI Medicine

Bou Ayache, Jad
Marwan
Radiology

Bou Puerto, Regina
Graduate Studies

Boumiza, Aida
Medicine

New Authors Added (2018-2020):

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16,882 Author Profiles in Synapse:

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*as of April 14, 2021

MSK LIBRARY 2020 SYNAPSE PUBLICATIONS REPORT
People: New Authors

Brown, Emily Burns
Westchester, Outpatient Operations

Brown, Samantha
Biostat/Epidemiology

Bruening, Jan Gert
Molecular Biology

Burman, Bharat
Graduate Staff

Burnes Vargas, Daniela
Molecular Pharmacology Program

Burt, Kathleen M
Nursing

Cadwell, Joshua Blaine
Graduate Staff

Caeser, Rebecca
SKI Medicine

Cai, Gracie
Pathology

Cai, Winson
Graduate Studies

Caldararo, Mario
Domenico
Graduate Staff

Calivo, Kathleen Lim
Nursing

Caltabellotta, Nicole M.
Research Service Centers

Canestraro, Julia
Surgery

Caringi, Amanda Michelle
Medical Physics

Carino, Caroline
David H. Koch Center, Nursing

Carnevale, Joseph
Graduate Staff

Catalano, John David
SKI Surgery

Causa Andrieu, Pamela
Radiology

Cha, Elaine
Graduate Staff

Chan, Karmela Kim
Immunology

Chan, Patrick
Laboratory Medicine

Chandler, Christopher Steven
Graduate Staff

Charyn, Jillian Rebecca
SKI Surgery

Chaudhary, Ojasvi
Computational and Systems Biology Program

Chen, Ishita
Graduate Staff

Chen, Jiapeng
SKI Radiation Oncology

Chen, Sophia
Immunology

Chen, Ziyu
Graduate Studies

Cheng, Lingling
Structural Biology

Chernak, Brian J
Medicine

Chilukuri, Lakshmi Pradeepni
Prostate Cancer Clinical Trials Consortium

Chin, Martin S.
Psychiatry Service

Chipman, Mollie E
GSK Graduate Student

Choi, Jehee Isabelle
Radiation Oncology

Chokshi, Ishita
Quality of Care Initiative

Choudhury, Noura Jehan
Graduate Staff

Chu, Ying-Hsia
Graduate Staff

Chui, Michael Herman
Pathology

Claro, Maria
Psychiatry Service

Cohen, Ouri
Medical Physics

Cohen, Seth Matthew
Medicine

Collins, Paige
Medical Medicine

Corless, Broderick Cameron
Graduate Studies

Cornejo, Mike Anthony
SKI Radiology

Cottington, Eric M
Technology Management

Courtney, Margaret
LD - Advanced Practice Providers

Cowie, Kendall Emily
Medicine

Cox, Nehemiah
Immunology

Cruz, Cristian D
Collaborative Research Centers - PIC Directed

Curran, Katherine Grace
SKI Surgery

Da Graca Polubiaginof, Fernanda C.
Health Informatics

Dai, Angi
Immunology

Dananberg, Alexandra
Graduate Studies

Davies, Leonard
Radiology

Dayton, Jeffrey
Pediatrics

De Jesus Alvarez, Hector Leonardo
Nursing

De Jesus, Miguel Francisco
GSK Graduate Student

De Mello, Barbara Pereira
SKI Radiology

Dela Cruz, Dominique Angela
Kimmel, Nursing

Delconte, Rebecca Beatrice
Immunology

Delgado, Bryce D
Graduate Studies

Delgadillo, Nicole
Human Oncology and Pathogenesis Program

Delureficio, Anthony Joshua
Information Systems

Derkach, Andriy
Biostat/Epidemiology

D’Errico, Michelle A
Basking Ridge, Infusion Nursing

Dewaele Le Roi, Guillaume
SKI Radiology

Dewolf, Susan E
Graduate Staff

Diaz Ordonez, Maria
Graduate Staff

Diehl, Gretchen
Immunology

Dix, Jenna-Marie C
Human Resources

Elhanati, Yuval
SKI Epidemiology/Biostatistics

Elkin, Rena
SKI Medical Physics

Donoghue, Patricia Michele
LD - Advanced Practice Providers

Dopeso Gonzalez, Jose Higinio
SKI Pathology

Douglas, Melanie B.
LD - Advanced Practice Providers

Doustaly, Raphael
Radiology

Doyle, Stephanie M
Patient Financial Services

Dreyfuss, Alexandra
Graduate Staff

Du, James
Pathology

Dunigan, Marisa R
Collaborative Research Centers - PIC Directed

Dupuy, Pierre
Immunology

Durnford, Allison Beth
Strategy and Innovation

Durocher, Jennifer Marie
Medicine

Eid, Khalil Talal
Research and Technology Management

Elhanati, Yuval
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SKI Medical Physics
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SKI Pathology

Marqueen, Kathryn E.
Graduate Staff

Martindale, Moriah
Medicine

Martinez, Chanel Isemene
SKI Psychiatry/Counseling

Maurer, Stefanie
SKI Radiology

Mays, Melody
Patient Representatives

Mccune, Megan
Radiation Oncology

Mckinnell, Zoe Alexa
Graduate Staff

Mcmillan, Shadai T
Research Service Centers

Mcneal, Katracyna J
SKI Psychiatry/Counseling

Mcsweeney, Jeanine Lynn
Information Systems

Medhi, Darpan Kaustuv
Developmental Biology

Mehanna, Nezar
Human Oncology and Pathogenesis Program

Mehta, Nikita
Navinchandra Pathology

Mekala, Shekar
Chemical Biology Program

Merchant, Shelby L
Pharmacy

Mi, Xiaoli
Graduate Staff

Michaels, Anthony James
Graduate Studies

Michelini, Flavia
Human Oncology and Pathogenesis Program

Miller, Cortney N
Hospital Administration

Miller, Kathryn
Graduate Studies

Mills, Kathleen
Graduate Studies

Min, Ryan Alexander
Radiology

Mincer, Joshua Samuel
Anesthesiology

Mishra, Tanmay
Human Oncology and Pathogenesis Program

Misyura, Maksym
Pathology

Mitrta, Maria
Graduate Staff

Mogilevskaya, Yevgeniya
Graduate Staff

Mohr, Lisa Elfi
Molecular Biology

Moodle, Mark N
Facilities Management

Moore, Zachary Ray
Graduate Staff

Morris, Quaid
Computational and Systems Biology Program

Moy, Andrea Primiani
Pathology

Moy, Ryan Hideki
Graduate Staff

Muca, Engiel
Ld - Advanced Practice Providers

Mullangi, Samyukta
Graduate Staff

Murray, Rebecca
Pathology

Murtagh, Patrick J
David H. Koch Center, Nursing

Myka, Kamila
Katarzyna Molecular Biology

Nagle, Veronica Leigh
Graduate Studies

Nahhas, Omar Dany
Medicine

Narendra, Varun
Graduate Staff

Naupari, Sandy P
Pathology

Navilii, John P
Westchester, Medical Physics

Navrazhina, Kristina
Graduate Studies

Navy, Tal
Computational and Systems Biology Program

Ndengu, Andoyo Anyona
SKI Pediatrics

Nelson, Grady L.
Chemical Biology Program

Neuwirth, Madalyn Grace Marie
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Nassau, Radiology

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Pandey, Shila
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Parekh, Priti K
Information Systems

Park, Jennifer
Medicine

Park, Soo
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Parker, Whitney Erin
Graduate Staff

Patel, Meera Y.
Health Informatics

Pawloski, Kate Rose
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Peralta, Christopher
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Peraro, Leila
Molecular Pharmacology Program

Pesci, Giulio
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<tr>
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<tr>
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<td>Zakeri, Kaveh</td>
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<td>Zegarra Ruiz, Daniel Fernando</td>
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<td>Zhang, Tiffany Leshan</td>
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<td>Integrative Medicine</td>
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<tr>
<td>Zhu, Changyu</td>
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<tr>
<td>Cancer Biology and Genetics</td>
</tr>
</tbody>
</table>
Groups

The “Groups” in Synapse represent the intellectual output of a division, department, or collaborative team. Works (publications) of selected author profiles are associated together to form a unique collection, providing a single view of their research. Groups can be further divided into “sub-groups” to collect the works of any services or divisions within the main group.

Administrators, authors, or those involved with scholarly activities can use a group view to:

- track and share their customized group of authors and publications with others
- monitor various bibliometrics attributed to their group’s works
- promote the work of their department by embedding a unique URL within a webpage or email auto-signature
- easily sort publications by year, format, journal title, or author
- create publications lists that can be used for grant and funding reports
- update their authors’ curricula vitae, and other online profile services such as ORCID or My NCBI

If you are interested in having a group created on your behalf, please contact us.
Top Synapse Journals

In 2020, MSK authors published in 941 different journal titles covering topics such as:

- Cancer Genetics & Genomics
- Cancer Immunotherapy & Vaccines
- Cancer Metabolism
- Cell Signaling & Regulation
- Cell-Based Therapy
- Chemical Biology
- Computational Oncology
- Developmental Biology
- Epidemiology
- Statistics & Health Outcomes
- Epigenetics
- Exercise Oncology
- Genome Integrity
- Hematologic Malignancies
- Imaging
- Immunology
- Metastasis & Drug Resistance
- Microbiome & Inflammation
- Molecular Pathology & Diagnostics
- Nanotechnology
- Neuroscience & Neuro-Oncology
- Nursing
- Solid Tumor Oncogenesis
- Stem Cells
- Structural Biology
- Systems Biology
- Targeted Therapy
- Tumor Microenvironment

FOR JOURNAL ARTICLES

The following chart shows the top 10 journal titles (by number of 2020 Synapse works) that MSK authors published in (including journal articles, reviews, research letters, correspondence, editorials, and guidelines.)

<table>
<thead>
<tr>
<th>Journal</th>
<th># of Synapse works in 2020</th>
<th>Impact Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journal of Clinical Oncology</td>
<td>80</td>
<td>44.544</td>
</tr>
<tr>
<td>Clinical Cancer Research</td>
<td>67</td>
<td>12.531</td>
</tr>
<tr>
<td>Cancer</td>
<td>57</td>
<td>6.86</td>
</tr>
<tr>
<td>Annals of Surgical Oncology</td>
<td>56</td>
<td>5.344</td>
</tr>
<tr>
<td>Blood Advances</td>
<td>45</td>
<td>6.686</td>
</tr>
<tr>
<td>JAMA Oncology</td>
<td>42</td>
<td>31.777</td>
</tr>
<tr>
<td>Nature Communications</td>
<td>39</td>
<td>14.919</td>
</tr>
<tr>
<td>Gynecologic Oncology</td>
<td>35</td>
<td>5.482</td>
</tr>
<tr>
<td>Lancet Oncology</td>
<td>35</td>
<td>41.316</td>
</tr>
<tr>
<td>Cancer</td>
<td>35</td>
<td>6.639</td>
</tr>
</tbody>
</table>

*Impact factors were retrieved on 6/30/2021 from Journal Citation Reports, a product of Clarivate Analytics.
# Top Meeting Abstracts

## TOP 5 MEETINGS

In 2020, these meetings generated the most abstracts:

1. 56th Annual Meeting of the American Society of Clinical Oncology (ASCO)
2. 109th Annual Meeting of the United States and Canadian Academy of Pathology (USCAP)
3. ESMO Virtual Congress 2020
4. 111th Annual Meeting of the American Association for Cancer Research (AACR)
5. 62nd Annual Meeting of the American Society for Radiation Oncology (ASTRO)

## FOR MEETING ABSTRACTS

The following chart shows the top 10 journal titles for this reporting period (as of 6/11/2021) that MSK authors published meeting abstracts in.

<table>
<thead>
<tr>
<th>Journal</th>
<th># of Synapse works in 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journal of Clinical Oncology</td>
<td>426</td>
</tr>
<tr>
<td>Cancer Research</td>
<td>164</td>
</tr>
<tr>
<td>Annals of Oncology</td>
<td>128</td>
</tr>
<tr>
<td>Laboratory Investigation</td>
<td>116</td>
</tr>
<tr>
<td>International Journal of Radiation Oncology, Biology, Physics</td>
<td>104</td>
</tr>
<tr>
<td>Biology of Blood and Marrow Transplantation</td>
<td>64</td>
</tr>
<tr>
<td>Neuro-Oncology</td>
<td>53</td>
</tr>
<tr>
<td>Gynecologic Oncology</td>
<td>50</td>
</tr>
<tr>
<td>Annals of Surgical Oncology</td>
<td>39</td>
</tr>
<tr>
<td>Journal for Immunotherapy of Cancer</td>
<td>37</td>
</tr>
</tbody>
</table>
Top Journals by Subject Category

Impact Factors are a benchmark of a journal’s reputation and reflect how frequently peer-reviewed journals are cited by other researchers in a specific year. A journal’s impact factor helps to evaluate the journal’s relative importance or prestige, especially when compared with others in the same field.

Revised annually by Journal Citation Reports (JCR), the impact factor calculation is largely based on the average number of times the journal’s articles have been cited in other publications over the previous two years, while correcting for inter-journal variability (for example, number of articles per issue and frequency of publication).

JCR can also be used to see how a journal is categorized within a specific research field and the ranking of the journal within its subject category/categories, providing additional insights to the journal’s value.
Top-Scoring Papers via Altmetric

The Altmetric Attention Score is derived from an automated algorithm and represents a weighted count of the amount of attention a research output receives on the Internet. It gives a guide to the overall attention at that moment in time.

The colors of the donut also have significance. Each color represents the source in which mentions of the paper were found (e.g. red for news outlets, blue for Twitter, yellow for blogs, etc.)

**LEGEND**

- News
- Blogs
- Twitter
- Facebook
- Sina Weibo
- Syllabi
- Policy
- Documents
- YouTube

- Post-Publication
- Peer-Reviews
- Wikipedia
- LinkedIn
- Reddit
- Google+
- Q&A (Stack Overflow)
- Research Highlight platform

*Altmetric attention scores occur in real time and can fluctuate based on new mentions or new sources added to the calculation. The scores shown are current as of 5/28/2021*

- **Allele-specific chromosome removal after Cas9 cleavage in human embryos**
  - *Cell*
  - Maria Jasin

- **Complement associated microvascular injury and thrombosis in the pathogenesis of severe COVID-19 infection: A report of five cases**
  - *Translational Research*
  - Joseph Justin Mulvey

- **Fine-mapping of 150 breast cancer risk regions identifies 191 likely target genes**
  - *Nature Genetics*
  - Kenneth Offit, Mark E Robson, Rohini Subhadra Rau Murthy, Vijai Joseph

- **Shedding of viable SARS-COV-2 after immunosuppressive therapy for cancer**
  - *New England Journal of Medicine*
  - Gunjan Lalitchandra Shah, Tobias Martin Hohl, Genovefa A Papanicolaou, Miguel-Angel Perales, Kent A Sepkowitz, Ngolela Esther Babady, Mini Kamboj

- **Effect of a behavioral intervention to increase vegetable consumption on cancer progression among men with early-stage prostate cancer: The MEAL randomized clinical trial**
  - *JAMA - Journal of the American Medical Association*
  - Michael Morris

- **Association of coffee intake with survival in patients with advanced or metastatic colorectal cancer**
  - *JAMA Oncology*
  - Eileen O’Reilly

- **Colorectal cancer statistics, 2020**
  - *CA - A Cancer Journal for Clinicians*
  - Andrea Cercek Hanjis

- **Senolytic CAR T cells reverse senescence-associated pathologies**
  - *Nature*
  - Corina Amor Vegas, Judith Carolin Feucht, Josef Leibold, Yu-jui Ho, Changyu Zhu, Direna Alonso Curbelo, Jorge Mansilla-Soto, Jacob Andrew Boyer, Xiang Li, Theodoros Giavridis, Amanda Kulick, Shauna Lee Houlihan, Ellinor Irmgard Barbara Peerschke, Vladimir Ponomarev, Alessandra Piersigilli, Michel W J Sadelain, Scott W Lowe

- **KRAS(G12C) inhibition with sotorasib in advanced solid tumors**
  - *New England Journal of Medicine*
  - Piro Lito, Bob Tingkan Li
Highly-Cited Papers

The following represent the most highly-cited papers of 2020 with an MSK affiliation according to data retrieved from Dimensions on 05/27/2021. (Note: Only the MSK author on the paper is shown).

1. **Complement associated microvascular injury and thrombosis in the pathogenesis of severe COVID-19 infection: A report of five cases**
   - *Translation Research*
   - Joseph Justin Mulvey
   - 984 citations

2. **Colorectal cancer statistics, 2020**
   - *CA - A Cancer Journal for Clinicians*
   - Andrea Cercek Hanjis
   - 590 citations

3. **Efficacy of pembrolizumab in patients with noncolorectal high microsatellite instability/mismatch repair-deficient cancer: Results from the phase II KEYNOTE-158 study**
   - *Journal of Clinical Oncology*
   - Luis Alberto Diaz
   - 360 citations

4. **B cells and tertiary lymphoid structures promote immunotherapy response**
   - *Nature*
   - Roberta Zappasodi
   - 351 citations

5. **Safety recommendations for evaluation and surgery of the head and neck during the COVID-19 pandemic**
   - *JAMA Otolaryngology - Head and Neck Surgery*
   - Luc Morris
   - 324 citations

6. **The Image Biomarker Standardization Initiative: Standardized quantitative radiomics for high-throughput image-based phenotyping**
   - *Radiology*
   - Aditya Apte
   - 301 citations

7. **Dendritic cells in cancer immunology and immunotherapy**
   - *Nature Reviews Immunology*
   - Adriana Marie Mujal
   - 281 citations

8. **Defining trained immunity and its role in health and disease**
   - *Nature Reviews Immunology*
   - Joseph C Sun
   - 278 citations

9. **Trastuzumab deruxtecan in previously treated HER2-positive breast cancer**
   - *New England Journal of Medicine*
   - Shanu Modi
   - 261 citations

10. **The KRAS(G12C) inhibitor MRTX849 provides insight toward therapeutic susceptibility of KRAS-mutant cancers in mouse models and patients**
    - *Cancer Discovery*
    - Yaohua Xue, Piro Lito
    - 250 citations
Research Collaborations

The Synapse team analyzed the author affiliation data from (2,297) research articles authored by MSK researchers in 2020. For each paper, we recorded the number of authors and unique geographic locations listed (i.e. if a paper had five author affiliations in NY, New York, we recorded NY, New York only once).

The results show the international scope of MSK research collaboration through journals, which span over 1,000 cities and 80 countries worldwide. The illustrations below represent three key outcomes:

1. the percentage of papers that include international affiliations;
2. the number of papers that showcase collaborative work done outside the Center;
3. and the frequency of authors per paper.

<table>
<thead>
<tr>
<th>Affiliations</th>
<th># of papers</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>US-only</td>
<td>1,220</td>
<td>53%</td>
</tr>
<tr>
<td>International</td>
<td>1,077</td>
<td>47%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Collaborations</th>
<th># of papers</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSK Authors Only</td>
<td>345</td>
<td>15%</td>
</tr>
<tr>
<td>External Collaborations</td>
<td>1,952</td>
<td>85%</td>
</tr>
</tbody>
</table>

Authors Per Paper

Mode: 8
Median: 11
Average: 17

1% of MSK research articles were single-authored papers
Research Collaborations: International

Top collaborating institutions:

<table>
<thead>
<tr>
<th>Institution</th>
<th># of papers</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Toronto (Toronto, Canada)</td>
<td>113</td>
</tr>
<tr>
<td>University of Melbourne (Melbourne, Australia)</td>
<td>71</td>
</tr>
<tr>
<td>German Cancer Research Center (Heidelberg, Germany)</td>
<td>69</td>
</tr>
<tr>
<td>Institut National de la Santé et de la Recherche Medicale (INSERM), (Villejuif, France)</td>
<td>64</td>
</tr>
<tr>
<td>University of Cambridge (Cambridge, UK)</td>
<td>63</td>
</tr>
<tr>
<td>Karolinska Institutet (Solna, Sweden)</td>
<td>62</td>
</tr>
<tr>
<td>Medizinische Universitat Wien (Vienna, Austria)</td>
<td>56</td>
</tr>
<tr>
<td>Ontario Cancer Institute (Toronto, Canada)</td>
<td>53</td>
</tr>
<tr>
<td>Institute of Cancer Research (London, UK)</td>
<td>50</td>
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<tr>
<td>Stabilité Génétique et Oncogenèse, Université Paris-Saclay (Paris, France)</td>
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Top collaborating countries:

<table>
<thead>
<tr>
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<tr>
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<tr>
<td>Germany</td>
<td>335</td>
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<tr>
<td>France</td>
<td>333</td>
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<tr>
<td>Canada</td>
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<tr>
<td>Italy</td>
<td>294</td>
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<tr>
<td>Spain</td>
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<tr>
<td>Japan</td>
<td>202</td>
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<tr>
<td>Australia</td>
<td>191</td>
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<tr>
<td>China</td>
<td>186</td>
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<tr>
<td>The Netherlands</td>
<td>184</td>
</tr>
<tr>
<td>Switzerland</td>
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<tr>
<td>Sweden</td>
<td>88</td>
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<tr>
<td>Israel</td>
<td>81</td>
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<tr>
<td>Belgium</td>
<td>77</td>
</tr>
<tr>
<td>South Korea</td>
<td>66</td>
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</table>
# Research Collaborations: United States

## Top collaborating institutions:

<table>
<thead>
<tr>
<th>Institution</th>
<th># of papers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weill Cornell Medical College (New York, NY)</td>
<td>600</td>
</tr>
<tr>
<td>University of Texas MD Anderson Cancer Center (Houston, TX)</td>
<td>271</td>
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<tr>
<td>Dana-Farber Cancer Institute (Boston, MA)</td>
<td>268</td>
</tr>
<tr>
<td>Harvard Medical School (Cambridge, MA)</td>
<td>219</td>
</tr>
<tr>
<td>Massachusetts General Hospital (Boston, MA)</td>
<td>159</td>
</tr>
<tr>
<td>Mayo Clinic (Rochester, MN)</td>
<td>137</td>
</tr>
<tr>
<td>Fred Hutchinson Cancer Research Center (Seattle, WA)</td>
<td>131</td>
</tr>
<tr>
<td>University of Pennsylvania (Philadelphia, PA)</td>
<td>131</td>
</tr>
<tr>
<td>Brigham and Women’s Hospital (Boston, MA)</td>
<td>131</td>
</tr>
<tr>
<td>National Cancer Institute (Bethesda, MD)</td>
<td>123</td>
</tr>
</tbody>
</table>

## Top collaborating states:

<table>
<thead>
<tr>
<th>State</th>
<th># of papers</th>
</tr>
</thead>
<tbody>
<tr>
<td>New York</td>
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</tr>
<tr>
<td>California</td>
<td>651</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>521</td>
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<tr>
<td>Texas</td>
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</tr>
<tr>
<td>Pennsylvania</td>
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</tr>
<tr>
<td>Maryland</td>
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<tr>
<td>North Carolina</td>
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<td>Ohio</td>
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<td>Illinois</td>
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<tr>
<td>Florida</td>
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<tr>
<td>New Jersey</td>
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<td>Washington</td>
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<td>Tennessee</td>
<td>159</td>
</tr>
<tr>
<td>Michigan</td>
<td>149</td>
</tr>
<tr>
<td>Minnesota</td>
<td>147</td>
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</table>
Bibliography of Works

The following bibliography consists of 2020 works that were ingested into Synapse as of 4/26/2021.

Based on the submission schedules of different publishers and commercial databases, there may be delays in 2020 content being added to Synapse.

The bibliography is divided into 11 sections:

- **Journal Articles**
  Presentation of original research investigations that are likely, but not always, peer-reviewed, including the following:
  - Clinical trials, meta-analyses, laboratory investigations
  - Case reports and brief reports
  - White papers
  - Chapters from a monographic series

- **Reviews**
  Comprehensive literature, topic, or subject summaries, including systematic reviews.

- **Research Letters**
  Original research presented in journals as correspondence.

- **Editorials**
  Editorials, viewpoints, commentaries, and other opinion type pieces published in journals.

- **Guidelines**
  A set of guidelines/recommendations written on behalf of a professional group or society.

- **Correspondence**
  Letters to the editor, replies, and other items included in the correspondence sections of journals.

- **Miscellaneous**
  Items that do not fall within other categories such as: book reviews, interviews, obituaries, debates, podcasts etc. These works are usually not peer-reviewed.

- **Conference Papers**
  Original articles published for or presented at a conference, symposium, or other professional gathering.

- **Meeting Abstracts**
  Published abstracts of presentations held at a conference, symposium, or other professional gathering including, (but not limited to):
  - Poster presentations
  - Oral presentations
  - Panel discussions

- **Book Sections**
  Chapters or sections of a monograph or book. Occasionally, these will be represented in Synapse as journal articles (if they are part of a monographic series) or conference papers/meeting abstracts (if they are part of a proceedings booklet).

- **Whole Books**
  Whole monographs or entire books.
Journal Articles (2,364)

Abd Wahab S, Remus D. Antagonistic control of DDK binding to licensed replication origins by Mcm2 and Rad53. eLife. 2020;9:e58571. PMCID: PMC7398698


Stem Cell Research. 2020;45:101837. PMCID: PMC7297435
Almassi N, Mulhall JP, Funt SA, Sheinfeld J. ‘Case of the Month’ from Memorial Sloan Kettering Cancer Center, New York, NY, USA: Managing newly diagnosed metastatic testicular germ cell tumour in a COVID-19-positive patient. BJU International. 2020;126(3):333-335. PMCID: PMC7362031
Alzumaili B, Xu B, Spanheimer PM, Tuttle RM, Sherman E, Katabi N, Dogan S, Ganly I, Utech BR, Ghossein RA. Grading of medullary thyroid carcinoma on the basis of tumor necrosis and high mitotic rate is an independent predictor of poor outcome. Modern Pathology. 2020;33(9):1690-1701. PMCID: PMC7483270
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