2019 Synapse Publications Report
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Director’s Welcome

I am delighted to share that we have completed the 2019 Synapse Publications Report, and welcome staff and interested readers to take a moment to review the research activities of our authors via their published works.

Synapse is a public facing resource and the authoritative bibliographic database developed and maintained by a skilled team of information professionals led by Jeanine McSweeney, Associate Librarian, Scholarly Communications. As of June 2020, Synapse contained over 81,000 entries [references] dating back to 1989, embodying 15,781 author profiles, and we will continue to add entries to include both current and retrospective content. For this reporting period (as of 06/10/20), there were 5,130 works vetted in 2019, representing approximately a 11.5% increase in published works from the previous year.

I am also excited to impart that we have added a new section to our annual report to showcase the various “Groups” in Synapse. These groups provide a single view to the research and publication portfolio from a division, department, or collaborative team. Individuals responsible for monitoring the scholarly literature and research activities of their departments will find having a group can streamline their workflow and reduce the time required to identify recently published works.

I hope this report will provide readers with a sense of the research contributions attributed to Memorial Sloan Kettering Cancer Center for this time period, as well as the dedication 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 5/13/2020, Synapse contains content dating back to 1989.

2019 Works: 5,130

- 3,240 Journal Articles
- 1,716 Meeting Abstracts
- 133 Book Sections
- 36 Conference Papers
- 5 Whole Books

1,807 (56%)

Of 2019’s journal articles are NIH funded*

*As of 5/13/2020.

In Synapse, a “journal article” may refer to a research article, review/survey, editorial, letter or chapter in a monographic series. Only peer-reviewed articles are required to cite NIH funding.
Introduction

New Feature: Research Activity Dashboard (RAD)

MSK staff and Synapse site visitors can view a RAD for an individual or a group. Introduced in 2019, these dashboards present a set of metrics that can be used to measure the impact of a researcher’s scholarly productivity or showcase a group’s or department’s publishing contributions for three different time periods.

For the individual author, this new feature provides a graphic representation of the person’s publications by format (e.g. journal article, meeting abstract, book section), their unique ORCID iD, authoring position on the work, and links to additional metrics, including their h-index and the total number of citations, found in Scopus (Elsevier’s abstract and citation database).

Individual RAD: Dr. Craig Thompson

For the group, the RAD reveals similar metrics, along with the intellectual output of the group’s authors in three different views: previous year, current year-to-date, and all publications. This information is dynamic, and changes as new works are vetted and ingested into Synapse. The list organizes group members by number of publications, from highest to lowest.

Group RAD: Human Oncology and Pathogenesis Program (HOPP) 2019 Publications
Introduction

New Feature: Citation Counts

Journal citation count behavior can vary from subject area to subject area depending on a multitude of factors, including the publication format (review articles could get cited more often than an editorial) or research environment (Industry versus Academia).

Citation counts should not be considered a quality measure as the work could be cited for both negative as well as positive reasons. However, it can measure the relative importance or impact of an author, article, or publication, by counting the number of times that the author, article, or publication has been cited by another researcher.

Another feature that was integrated into Synapse this year was the Dimensions’ badge (a product from Digital Science). The badge appears alongside the existing Altmetric donut, providing another option to view a publication’s impact. All works in Synapse will include the badge if the work has a citation count that’s greater than zero. The badge is a dynamic link to the citation score in Dimensions and will fluctuate in real time as the citation count changes. Clicking on the colored wheel will take the individual to the source page where more details can be viewed, including the article’s citations, Field Citation Ratio, and Relative Citation Ratio. There are other indexing and abstracting services that provide citation counts and it is important to note each source only counts what’s in their own database, so citation counts can differ from database to database.
Top 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 and Marketing and Communications 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.

The top 10 prolific authors of 2019 include:

- **Marc Ladanyi, MD**
  Pathologist, Chief, Molecular Diagnostics Service; William J. Ruane Chair in Molecular Oncology
  - 95

- **Maria E. Arcila, MD**
  Pathologist, Director, Diagnostic Molecular Pathology Laboratory
  - 76

- **Alexander Drilon, MD**
  Medical Oncologist, Research Director, Early Drug Development
  - 73

- **David Michael Hyman, MD**
  Medical Oncologist, Chief, Early Drug Development (2006-2020)
  - 73

- **Michael F. Berger, PhD**
  Geneticist, Associate Director, Marie-Josée & Henry R. Kravis Center for Molecular Oncology
  - 71

- **David B. Solit, MD**
  Medical Oncologist, Director, Marie-Josée & Henry R. Kravis Center for Molecular Oncology
  - 67

- **Jorge S. Reis-Filho, MD, PhD, FRCPath**
  Pathologist, Chief, Experimental Pathology Service
  - 64

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

- **Matthew D. Hellmann, MD**
  Medical Oncologist
  - 61

- **Victor E. Reuter, MD**
  Pathologist, Vice Chair, Department of Pathology; Director, Genitourinary Pathology; Director, Genitourinary Pathology Fellowship; Director, Pathology Core Facility
  - 60
# 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 2019, Synapse profiles were created for the following MSK employees (612):

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abuhashem, Abderhman Anees</td>
<td>Graduate School</td>
<td>Administration</td>
</tr>
<tr>
<td>Acquaviva, Laurent</td>
<td>Molecular Biology</td>
<td></td>
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<tr>
<td>Adamson, Travis Edward</td>
<td>Medicine</td>
<td></td>
</tr>
<tr>
<td>Adnan, Mutayyaba</td>
<td>SKI Radiation Oncology</td>
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<tr>
<td>Afzalneia, Reza</td>
<td>Dermatology</td>
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<tr>
<td>Aggen, David Henry</td>
<td>Medicine</td>
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<tr>
<td>Agustinus, Albert Steven</td>
<td>Graduate School</td>
<td>Administration</td>
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<tr>
<td>Ahmed, Husam A</td>
<td>Psychiatry Service</td>
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<tr>
<td>Ahmed, Zain Uddin</td>
<td>SKI Surgery</td>
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<tr>
<td>Alarcon Tomas, Ana</td>
<td>SKI Medicine</td>
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<tr>
<td>Aleissa, Saud</td>
<td>Graduate Staff</td>
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<td>Alhamid, Nurul Huda</td>
<td>Research Facilities</td>
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<td>Alija, Besmira</td>
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<td>Nursing</td>
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<td>Ames, Ashley</td>
<td>Ld - Advanced Practice Providers</td>
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<td>Amir, Tali</td>
<td>Radiology</td>
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<td>Amoretti, Luigi A</td>
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<td>Andre-Jones, Cassie Lee</td>
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<td>Antao, Noelle V</td>
<td>Graduate Studies</td>
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<td>Antman-Passig, Merav</td>
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<td>Armijo, Gabriel</td>
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<td>Arruabarrena Aristorena, Amaia</td>
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<td>Ashley, Charles Warner</td>
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<td>Ayhan, Miranda Shireen</td>
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<td>Ball, Daniel Parker</td>
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<td>Barkat, Shaziya</td>
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<td>Barnes, Kris M</td>
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<td>Batlevi, Yakup</td>
<td>PCCTC Operations</td>
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<tr>
<td>Baudin, Vicky E</td>
<td>Human Oncology and Pathogenesis Program</td>
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### Author Profiles in Synapse (15,781)

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*as of May 13, 2020

### New Authors Added (2017-2019)

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<td>524</td>
<td>584</td>
<td>612</td>
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*as of May 13, 2020
New Authors

Bernstein, Michael Brent  
Radiation Oncology

Bhattacharjee, Abir  
Chemical Biology Program

Bieler, Jennifer D  
Nursing

Bielska, Agata Agnieszka  
Graduate Staff

Biggar, Erin  
Medicine

Biniakewitz, Matthew D  
Nursing

Boby, Melissa Lynn  
Graduate Studies

Bodo, Sahra  
Molecular Pharmacology Program

Bojilova, Viktoria  
Biostatistics/Epidemiology

Boswell, Abigail Anne Goldman  
Research and Technology Management

Bourne, Christopher  
Graduate School Administration

Brallier, Jess Wallace  
Anesthesiology

Braunstein, Stephanie  
Human Oncology and Pathogenesis Program

Breen, Kelsey E  
Medicine

Bromberg, Maria  
Medicine

Brown, Chrysothemis Celia Margaret  
Immunology

Bruce Macdonald, Hannah Elspeth  
Computational and Systems Biology Program

Buege, Michael  
Pharmacy

Bush, Suzanne Irene  
Human Oncology and Pathogenesis Program

Bykov, Yonina  
Nursing

Calderon, Claudia  
LD - Advanced Practice Providers

Camacho Bydume, Christine  
Graduate Staff

Cansino, Christian Benedict  
Anesthesiology

Carlin, Stephen Michael  
Research Facilities

Carr, Rebecca Ann  
SKI Surgery

Carter-Harris, Lisa Michelle  
Psychiatry Service

Cass, Richard Willis  
Graduate Staff

Catchings, Amanda  
Medicine

Ceglia, Nicholas  
Biostatistics/Epidemiology

Cervino Arriba, Laura Isabel  
Medical Physics

Chakraborty, Saptarshi  
SKI Epidemiology/Biostatistics

Chan, Roger  
Pathology

Cheema, Waseem  
SKI Surgery

Chen, Connie  
SKI Integrative Medicine

Chen, Denise  
Collaborative Research Centers - PIC Directed

Chen, Linda Chang  
Radiation Oncology

Chen, Pei-Ming  
SKI Radiology

Chen, Yu-Jung  
Graduate School Administration

Chesnut, Gregory Thomas  
Graduate Staff

Chi, Yudan  
Human Oncology and Pathogenesis Program

Chino, Fumiko  
Radiation Oncology

Chitkara, Ritika  
LD - Advanced Practice Providers

Cho, Jessica Sungyun  
SKI Surgery

Choi, Hyejin  
Human Oncology and Pathogenesis Program

Choi, Seo-Hyun  
SKI Surgery

Chow, Andrew  
Graduate Staff

Chowdhury, Priyanka  
Graduate Studies

Chui, Michael Herman  
Pathology

Chukir, Tariq  
Graduate Staff

Ciardiello, Amanda  
Medicine

Ciceri, Gabriele  
Developmental Biology

Claros, Nidia Lisette  
SKI Neurosurgery

Clemens, Kristen  
Nursing

Clinton, Timothy Nguyen  
Graduate Staff

Cohen, Bevin  
Nursing

Cohen, Paul  
Medicine

Cohen, Sonia  
Graduate Staff

Colon, Jodecy Tyler  
Medicine

Condic-Jurkic, Karmen  
Computational and Systems Biology Program

Connolly, James  
SKI Surgery

Constable, Jeremy  
SKI Surgery

Crompton, Joseph Garfield  
Graduate Staff

Croteau, Nicole J  
SKI Surgery

Csente, Isabelle Sara  
Human Oncology and Pathogenesis Program

Daimiel Naranjo, Isaac  
SKI Radiology

Das, Jeeban Paul  
Graduate Staff

Dayal, Lokesh  
Graduate Staff

Deep, Deeksha  
Graduate School Administration

Del, Angela  
Pathology

Delgado Mariscal, Mauricio  
Laboratory Medicine

DeMarzo, Lauren Ashleigh  
Integrative Medicine
New Authors

Demetrio De Souza Franca, Paula
SKl Radiology

Deonarine Jr., Isaac
Medicine

Derderian, Camille
Human Oncology and Pathogenesis Program

DeRespiris, Lauren Marie
Pharmacy

Dessources, Kimberly
Graduate Staff

DeWitt, Meghan Irene
Strategy and Innovation

Dhali, Amandeep Kaur
Health Informatics

Diamond, Benjamin
Graduate Staff

Digwal, Chander Singh
Chemical Biology Program

Dixon, Gary
Graduate Studies

Dos Anjos, Carlos Henrique
Medicine

Doyle, Connor J
Radiation Oncology

Drago, Joshua
Graduate Staff

Dunn, Erica Elizabeth
David H. Koch Center

Egger, Jacklyn V
Collaborative Research Centers - PIC Directed

El, Robert Langland
Graduate Staff

Elias, Shlomo
Immunology

Eng, Anne
David H. Koch Center

Eng, Yeelam Diana
Molecular Biology

Enriquez, Mary Ann Jeanette Pacis
Nursing

Erickson, Caroline E.
Human Oncology and Pathogenesis Program

Fabrizio, Vanessa A
Graduate Staff

Fahy Fiorarancio, Rosanna
Hospital Administration

Faleck, David M.
Medicine

Fan, Yujie
Graduate Studies

Fardanesh, Reza
Radiology

Farina, Mirko
Human Oncology and Pathogenesis Program

Fasking, Sara
Pathology

Fearon, Nkechi
Ld - Advanced Practice Providers

Ferguson, Benjamin David
Graduate Staff

Fernandez, Keith Conrad
Graduate Studies

Fetten, James Vincent
Medicine

Figgins, Bradley
Pharmacy

Firat, Canan
SKl Pathology

Fitzpatrick, Veronica A
Ld - Advanced Practice Providers

Flynn, Lisa
Medicine

Fong, Christopher Joseph
Human Oncology and Pathogenesis Program

Foster, Ashley A
Medicine

Freret, Morgan Elizabeth
Graduate Staff

Friedman, Noah Daniel
Human Oncology and Pathogenesis Program

Friedman, Steven David
Facilities Management

Fromkin, Jillian
Josie Robertson Surgery Center

Funnell, Tyler
Graduate School Administration

Gaba, Anthony
Molecular Biology

Gai, Kuo
Chemical Biology Program

Gallagher, Katherine Marie
Radiology

Gao, Teng
Collaborative Research Centers - PIC Directed

Gene, Madeleine
Radiology

Geneslaw, Luke
Pathology

Geronimo, Jerica A
Pathology

Gerstle, Justin Theodore
Surgery

Ghafoor, Soleen
Radiology

Gibbs, Peter
Radiology

Gillis, Theresa Ann
Neurology

Gladstone, Eric
SKl Pathology

Gleeson, Jack
Graduate Staff

Godwin, Kendra
Medical Library

Goldberg, Johanna E
Medical Library

Goldman, Hannah
MSK at 53 Street

Goldstein, Michelle
Medicine

Gong, Yixiao
Collaborative Research Centers - PIC Directed

Gonzales, Patricia A
Laboratory Medicine

Goodfriend, Julie
Medicine

Graham, Andrew Michael
Nursing

Greenberg, Molly Dara
Ld - Advanced Practice Providers

Grewal, Diljot Singh
Biostatistics/Epidemiology

Griffin, Susan McAuliffe
Ld - Advanced Practice Providers

Griswold, Andrew
Graduate Studies

Gu, Ping
Medicine

Guercio, Shanna
Pathology

Guo, Robin
Graduate Staff

Guru, Navjot
SKl Radiology

Guttikonda, Sudha Ragavalli
Graduate Studies

Guttmann, David Marshall
Radiation Oncology

Hackland, James Owen Spencer
Developmental Biology

Haddadin, Michael Marwan
Graduate Staff

Haque, Noshin M
SKl Psychiatry/Counseling

Harris, Ucanele Geneisha
SKl Medicine
New Authors

Haubner, Sascha Paul
Immunology

Hauser, Haley Frances
Medicine

Hebert, Jakob M
Graduate Studies

Hehir, Ashley
Nursing

Helin, Kristian
Cell Biology

Henson, Melissa L
Research and Technology Management

Hernandez, Enmily
Pathology

Herrejon Chavez, Florisela
Graduate School Administration

Hettich, Grace
Nursing

Hiestand, Amy Coward
Nursing

Ho, Ka-Wai Grace
Graduate Staff

Hoen, Douglas Robert
Collaborative Research Centers - PIC Directed

Hom, Vania
Nursing

Hou, Yen Nien
Integrative Medicine

Howell, Frances
Psychiatry Service

Hristidis, Vasilis C
Graduate Staff

Hu, Yinin
Graduate Staff

Huang, Chun
Graduate Staff

Hubbeling, Harper
Graduate Staff

Hughes, Alexandra Giralt
Pediatrics

Hughes, Christopher
Human Resources

Hwee, Jason
Pathology

Hyde, Allison Mary
Nursing

Imran, Saira
Graduate Staff

Inumerables, Faye Ari Sonza
Nursing

Iqbal, Zishan Mahmud
Medicine

Iyer, Swathi Venkartraman
Cancer Biology and Genetics

Jackson, Benjamin
Graduate School Administration

Jalan, Manisha
SKI Radiation Oncology

Jani, Krupa Vijaykumar
Laboratory Medicine

Jenjitrnanant, Pocharapong
SKI Surgery

Jeon, Jeong Ok
Pathology

Jesus Faustino Ramos, Ruben Jose
Research Facilities

Jia, Ning
Structural Biology

Jiang, Ming
Graduate Studies

Jihad, Marwah
Research Service Centers

Jimenez Sanchez, Alejandro
Computational and Systems Biology Program

Jonas, Lauren Alexandria
Graduate Studies

Joseph, Gabriella
Research Service Centers

Joy, Elizabeth Ann
Westchester

Joyce, Christine
Pediatrics

Jung, Hun Jae
Pathology

Kamal, Kristen Marie
Nursing

Kamrowski, Alyssa
Medicine

Kanchaveli, David
Medical Physics

Kang, Jung Yun
Radiation Oncology

Kaplanis, Lauren Ashley
Nursing

Kappagantula, Rajya Lakshmi
SKI Pathology

Karzai, Abdul
Human Oncology and Pathogenesis Program

Kazansky, Yaniv
Graduate School Administration

Keegan, Niamh Marie
Graduate Staff

Kennedy, Maureen
Nursing

Keshava Murthy, Krishna Nand
Radiology

Kezlarian, Brie Elizabeth
Pathology

Khan, Abdul Salam
Human Oncology and Pathogenesis Program

Khan, Jonathan Faisal
Graduate Studies

Khoshi, Sareh
Medicine

Khusainova, Elvina
Medicine

Kiesler, Hannah B
Medicine

Kim, Amanda
SKI Radiation Oncology

Kim, Daeehee
Radiology

Kim, Dong Sung
Human Oncology and Pathogenesis Program

Kim, Sarah H
Graduate Staff

Kim, Soo Young
Psychiatry Service

Knorr, David A
Graduate Staff

Koelwyn, Graeme John
SKI Medicine

Konar Shridhar, Amaresha
SKI Medical Physics

Konig, Franchesca
Neurology

Kornhauser, Naomi
Medicine

Korsen, Joshua Aaron
Graduate School Administration

Kotchetkov, Ivan S
Graduate Staff

Kotecha, Ritesh Rajesh
Graduate Staff

Kotkiewicz, Jean Marie
Neurology

Koubek, Kellye Marie
Nursing

Kousa, Anastasia
Immunology

Krishnamurthy, Anjana
Graduate School Administration

Kumar, Asmita
Research and Technology Management

Kuo, Ting-Ting
Neurology
New Authors

Kuo, Ying-Yi
Developmental Biology
Kuperman, Gilad Joseph
Health Informatics
Kuttiyara, Jason
Human Oncology and Pathogenesis Program
Kyi, Chrisann Kyi
Medicine
Lagunilla, Jane
Neurology
Lamb, Kathleen
Monmouth
Lamendola-Essel, Michelle
SKI Medicine
Lau, Christie
Pathology
Lavery, Jessica Ann
Biostatistics/Epidemiology
Lebow, Emily Schapira
Graduate Staff
Lee, Andrew S
Graduate School Administration
Lee, Cindy J
Human Oncology and Pathogenesis Program
Lee, Jonghan Peter
Graduate Studies
Lee, Young Sun
Human Oncology and Pathogenesis Program
Leeolou, Melissa Catherine
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# New Authors

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Zimmermann, Melissa Lynn
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Groups

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• 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

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Groups (listed with their sub-groups)

- **Anesthesiology and Critical Care Medicine**
  - Anesthesiology Service, Critical Care Medicine

- **Colorectal Surgery**

- **Dermatology Service**

- **Epidemiology and Biostatistics**
  - Biostatistics Service, Computational Oncology Service, Epidemiology Service, Health Outcomes Research Group

- **Gerstner Sloan Kettering Graduate School of Biomedical Sciences**

- **Center for Hematologic Malignancies**
  - Adult Leukemia, Bone Marrow Transplant, Executive Committee, Hematologic Malignancies Research, Hematology, Lymphoma, Myeloma, Pediatric Leukemia.

- **Human Oncology and Pathogenesis Program**

- **Library**

- **Medical Physics**
  - Radiotherapy Physics Service

- **Nursing**

- **Pediatrics**

- **Population Sciences Research Program**

- **Psychiatry and Behavioral Sciences**

- **Radiology**

- **Radiation Oncology**

- **Sloan Kettering Institute Faculty**
  - Cancer Biology and Genetics Program Faculty, Cell Biology Program Faculty, Computational Biology Program Faculty, Developmental Biology Program Faculty, Immunology Program Faculty, Molecular Biology Program Faculty, Molecular Pharmacology and Chemistry Program Faculty, Structural Biology Program Faculty

- **Sloan Kettering Institute Postdocs**

- **Solid Tumor Oncology Division**

- **Strategy and Analytics**

- **Surgery**

- **Survivorship Research**
Publications

Journal Subject Coverage

In 2019, MSK authors published in 921 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

Journal Articles

The following chart shows the top 10 journal titles (by number of 2019 Synapse works) that MSK authors published articles in. In Synapse, a “journal article” may refer to a research article, review/survey, editorial, letter, or chapter in a monographic series.

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*Impact factors were retrieved on 6/29/2020 from Journal Citation Reports, a product of Clarivate Analytics.*
### Meeting Abstracts

The following chart shows the top 10 journal titles for 2019 (as of 5/3/2020) that MSK authors published meeting abstracts in.

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#### Top Five Meetings

In 2019, these meetings generated the most abstracts:

1. 55th Annual Meeting of the American Society of Clinical Oncology (ASCO)
2. 108th Annual Meeting of the United States and Canadian Academy of Pathology (USCAP)
3. 110th Annual Meeting of the American Association for Cancer Research (AACR)
4. 61st Annual Meeting of the American Society for Radiation Oncology (ASTRO)
5. 44th ESMO Congress (ESMO 2019)
Publications

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.

This illustration represents the number of 2019 Synapse works published in top journals within their respective JCR subject category.
Works

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.)

<table>
<thead>
<tr>
<th>Score</th>
<th>Title</th>
<th>Journal/Source</th>
<th>Authors/Contributors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1436</td>
<td>High-fructose corn syrup enhances intestinal tumor growth in mice</td>
<td>Science</td>
<td>Hongbiao Carl Lekaye</td>
</tr>
<tr>
<td>1420</td>
<td>Five-year survival with combined nivolumab and ipilimumab in advanced melanoma</td>
<td>New England Journal of Medicine</td>
<td>Jedd D. Wolchok</td>
</tr>
<tr>
<td>794</td>
<td>Metformin in 2019</td>
<td>JAMA: Journal of the American Medical Association</td>
<td>James H. Flory</td>
</tr>
<tr>
<td>791</td>
<td>Increasing the dose intensity of chemotherapy by more frequent administration or sequential scheduling: A patient-level meta-analysis of 37,298 women with early breast cancer in 26 randomised trials</td>
<td>Lancet</td>
<td>Larry Norton</td>
</tr>
<tr>
<td>679</td>
<td>Trends in sedentary behavior among the US population, 2001-2016</td>
<td>JAMA: Journal of the American Medical Association</td>
<td>Jedd D. Wolchok</td>
</tr>
<tr>
<td>610</td>
<td>Association between physician depressive symptoms and medical errors: A systematic review and meta-analysis</td>
<td>JAMA Network Open</td>
<td>Douglas Alexander Mata</td>
</tr>
<tr>
<td>556</td>
<td>Association of obesity with risk of early-onset colorectal cancer among women</td>
<td>JAMA Oncology</td>
<td>Ann G. Zauber</td>
</tr>
<tr>
<td>545</td>
<td>Association between regional body fat and cardiovascular disease risk among postmenopausal women with normal body mass index</td>
<td>European Heart Journal</td>
<td>Neil Mukund Iyengar</td>
</tr>
<tr>
<td>507</td>
<td>Does atelectasis cause fever after surgery? Putting a damper on dogma</td>
<td>JAMA Surgery</td>
<td>Joseph Garfield Crompton</td>
</tr>
</tbody>
</table>

*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 5/18/2020*
### Highly-Cited Papers

The following titles represent the most highly-cited papers of 2019 with an MSK affiliation, according to data retrieved from Dimensions on 05/21/2020.

<table>
<thead>
<tr>
<th>MSK-affiliated Article</th>
<th>Citation Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tumor mutational load predicts survival after immunotherapy across multiple cancer types</td>
<td>347</td>
</tr>
<tr>
<td><em>Nature Genetics</em></td>
<td></td>
</tr>
<tr>
<td>Avelumab plus axitinib versus sunitinib for advanced renal-cell carcinoma</td>
<td>309</td>
</tr>
<tr>
<td><em>New England Journal of Medicine</em></td>
<td></td>
</tr>
<tr>
<td>Robert Motzer</td>
<td></td>
</tr>
<tr>
<td>ASTCT consensus grading for cytokine release syndrome and neurologic toxicity associated with immune effector cells</td>
<td>182</td>
</tr>
<tr>
<td><em>Biology of Blood and Marrow Transplantation</em></td>
<td></td>
</tr>
<tr>
<td>Bianca D. Santomasso, Jae Hong Park, Elena Mead, Kevin Joseph Curran, Marcel R. M. Van Den Brink</td>
<td></td>
</tr>
<tr>
<td>Maintenance olaparib for germline BRCA-mutated metastatic pancreatic cancer</td>
<td>137</td>
</tr>
<tr>
<td><em>New England Journal of Medicine</em></td>
<td></td>
</tr>
<tr>
<td>Eileen O’Reilly</td>
<td></td>
</tr>
<tr>
<td>Neoadjuvant anti-PD-1 immunotherapy promotes a survival benefit with intratumoral and systemic immune responses in recurrent glioblastoma</td>
<td>122</td>
</tr>
<tr>
<td><em>Nature Medicine</em></td>
<td></td>
</tr>
<tr>
<td>Ingo K. Mellinghoff</td>
<td></td>
</tr>
<tr>
<td>Polygenic risk scores for prediction of breast cancer and breast cancer subtypes</td>
<td>111</td>
</tr>
<tr>
<td><em>American Journal of Human Genetics</em></td>
<td></td>
</tr>
<tr>
<td>Vijai Joseph, Kenneth Offit, Rohini Subhadra Rau Murthy, Mark E. Robson</td>
<td></td>
</tr>
<tr>
<td>Atezolizumab plus bevacizumab versus sunitinib in patients with previously untreated metastatic renal cell carcinoma (IMmotion151): A multicentre, open-label, phase 3, randomised controlled trial</td>
<td>109</td>
</tr>
<tr>
<td><em>Lancet</em></td>
<td></td>
</tr>
<tr>
<td>Robert Motzer</td>
<td></td>
</tr>
<tr>
<td>Five-year survival with combined nivolumab and ipilimumab in advanced melanoma</td>
<td>107</td>
</tr>
<tr>
<td><em>New England Journal of Medicine</em></td>
<td></td>
</tr>
<tr>
<td>Jedd D. Wolchok</td>
<td></td>
</tr>
<tr>
<td>Rivaroxaban for thromboprophylaxis in high-risk ambulatory patients with cancer</td>
<td>107</td>
</tr>
<tr>
<td><em>New England Journal of Medicine</em></td>
<td></td>
</tr>
<tr>
<td>Gerald A. Soff, Eileen O’Reilly</td>
<td></td>
</tr>
<tr>
<td>Neoantigen-directed immune escape in lung cancer evolution</td>
<td>105</td>
</tr>
<tr>
<td><em>Nature</em></td>
<td></td>
</tr>
<tr>
<td>Matthew David Hellmann</td>
<td></td>
</tr>
</tbody>
</table>
Research Collaborations

The Synapse team analyzed the author affiliation data from 2,278 research articles authored by MSK researchers in 2019. For each paper, we recorded the number of authors and unique geographic locations listed (i.e. if a paper had 5 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 77 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; and (3) the number of authors per paper.

**Research Papers (2,278)**

- **International**: 1,054 (46%)
- **US-only**: 1,224 (54%)

**Research Collaborations**

- **External**: 1,989 (87%)
- **Internal**: 289 (13%)

1% of all MSK research articles were single-authored papers.

**Authors per Paper**

- **Mode**: 7
- **Average**: 15
- **Median**: 10
Works

Research Collaborations: International

Top 15 Countries

<table>
<thead>
<tr>
<th>Country</th>
<th>Authors' Affiliations*</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Kingdom</td>
<td>360</td>
</tr>
<tr>
<td>Italy</td>
<td>355</td>
</tr>
<tr>
<td>Germany</td>
<td>336</td>
</tr>
<tr>
<td>Canada</td>
<td>313</td>
</tr>
<tr>
<td>France</td>
<td>272</td>
</tr>
<tr>
<td>Australia</td>
<td>193</td>
</tr>
<tr>
<td>Spain</td>
<td>191</td>
</tr>
<tr>
<td>Netherlands</td>
<td>170</td>
</tr>
<tr>
<td>Japan</td>
<td>155</td>
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<tr>
<td>China</td>
<td>141</td>
</tr>
<tr>
<td>Switzerland</td>
<td>117</td>
</tr>
<tr>
<td>Sweden</td>
<td>82</td>
</tr>
<tr>
<td>Israel</td>
<td>78</td>
</tr>
<tr>
<td>South Korea</td>
<td>66</td>
</tr>
<tr>
<td>Brazil</td>
<td>62</td>
</tr>
</tbody>
</table>

Authors’ Affiliation Counts

*If an affiliation appeared more than once on the paper, it was only recorded one time in final analysis.

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>69</td>
</tr>
<tr>
<td>University of British Columbia (Vancouver, Canada)</td>
<td>56</td>
</tr>
<tr>
<td>Institut National de la Santé et de la Recherche Medicale (Villejuif, France)</td>
<td>54</td>
</tr>
<tr>
<td>Ontario Cancer Institute (Toronto, Canada)</td>
<td>53</td>
</tr>
<tr>
<td>Karolinska Institutet (Solna, Sweden)</td>
<td>46</td>
</tr>
<tr>
<td>University of Cambridge (Cambridge, UK)</td>
<td>46</td>
</tr>
<tr>
<td>Medizinische Universitat Wien (Vienna, Austria)</td>
<td>44</td>
</tr>
<tr>
<td>University of Oxford (Oxford, UK)</td>
<td>41</td>
</tr>
<tr>
<td>Fondazione IRCCS Istituto Nazionale dei Tumori (Milan, Italy)</td>
<td>41</td>
</tr>
<tr>
<td>Hospital Universitari Vall d’Hebron (Barcelona, Spain)</td>
<td>40</td>
</tr>
</tbody>
</table>
Research Collaborations: United States

Top 15 States

<table>
<thead>
<tr>
<th>State</th>
<th>Authors’ Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>New York</td>
<td>1055</td>
</tr>
<tr>
<td>California</td>
<td>684</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>534</td>
</tr>
<tr>
<td>Texas</td>
<td>344</td>
</tr>
<tr>
<td>Maryland</td>
<td>334</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>308</td>
</tr>
<tr>
<td>North Carolina</td>
<td>250</td>
</tr>
<tr>
<td>Ohio</td>
<td>227</td>
</tr>
<tr>
<td>Florida</td>
<td>222</td>
</tr>
<tr>
<td>Illinois</td>
<td>196</td>
</tr>
<tr>
<td>Minnesota</td>
<td>196</td>
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<tr>
<td>Washington</td>
<td>174</td>
</tr>
<tr>
<td>New Jersey</td>
<td>169</td>
</tr>
<tr>
<td>Michigan</td>
<td>158</td>
</tr>
<tr>
<td>Tennessee</td>
<td>151</td>
</tr>
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</table>

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>491</td>
</tr>
<tr>
<td>University of Texas MD Anderson Cancer Center (Houston, TX)</td>
<td>228</td>
</tr>
<tr>
<td>Dana-Farber Cancer Institute (Boston, MA)</td>
<td>201</td>
</tr>
<tr>
<td>Harvard Medical School (Cambridge, MA)</td>
<td>182</td>
</tr>
<tr>
<td>Massachusetts General Hospital (Boston, MA)</td>
<td>139</td>
</tr>
<tr>
<td>Mayo Clinic (Rochester, MN)</td>
<td>133</td>
</tr>
<tr>
<td>Brigham and Women’s Hospital (Boston, MA)</td>
<td>121</td>
</tr>
<tr>
<td>National Cancer Institute (Bethesda, MD)</td>
<td>110</td>
</tr>
<tr>
<td>University of Washington (Seattle, WA)</td>
<td>109</td>
</tr>
<tr>
<td>University of Pennsylvania (Philadelphia, PA)</td>
<td>101</td>
</tr>
</tbody>
</table>

*If an affiliation appeared more than once on the paper, it was only recorded one time in final analysis.*
Bibliography of Works

The following bibliography consists of 2019 works that were ingested into Synapse as of 5/11/2020.

Based on the submission schedules of different publishers and commercial databases, there may be delays in 2019 content being added to Synapse.

The bibliography is divided into five sections:

Journal Articles
Works published in a serial publication including, (but not limited to):
- Research articles
- Reviews/surveys
- Editorials
- Letters
- Chapters from a monographic series

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
(3,240)


Journal Articles


Aldrink JH, Heaton TE, Dasgupta R, Lautz TB, Malek MM, Abdessalem SF, Weil BR, Rhee DS, Baertschiger...
Journal Articles


Alvim RG, Hughes C, Somma A, Nagar KK, Wong NC, La Rosa S, Monette S, Kim K, Coleman JA. The potential risk of tumor progression after use of dehydrated human amnion/chorion membrane allograft in a positive margin resection model. Therapeutic Advances in Urology. 2019;11:1756287219837771. PMID: PMC6444417

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specific risk prediction for recurrence in patients undergoing lobectomy or sublobar resection for small (≤2 cm) lung adenocarcinoma: An international cohort analysis. Journal of Thoracic Oncology. 2019;14(1):72-86. PMCID: PMC6309652


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Journal Articles


Journal Articles


Journal Articles


Journal Articles


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Journal Articles


Journal Articles


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Breitbart W. Novel interventions in supportive care. Palliative and Supportive Care. 2019;17(1):1. PMCID: PMC6538041


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Journal Articles


Journal Articles


Journal Articles


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Journal Articles

Journal Articles


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PMCID: PMC6451189

PMCID: PMC6563806


PMCID: PMC6794224

PMCID: PMC6848761


PMCID: PMC6309668


PMCID: PMC6903403

PMCID: PMC6514625


PMCID: PMC6656521

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**PMCID: PMC6825205**


**PMCID: PMC6916530**


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Friedman EA, **Osborne JR**, Mozley PD, Victor JD, Schiff ND. Presynaptic dopamine deficit in minimally conscious state patients following traumatic brain injury. Brain. 2019;142(7):1887-1893. PMCID: PMC6598636


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PMCID: PMC6346251

PMCID: PMC6356986

PMCID: PMC6380418

PMCID: PMC6380407

PMCID: PMC6407259

PMCID: PMC6854187

PMCID: PMC6733537


PMCID:PMC6525306

PMCID: PMC6724429


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Hanson SM, Georgiou G, Thakur MK, Miller WT, Rest JM, Chodera JD. Seelig MA. What makes a kinase promiscuous for inhibitors?. Cell Chemical Biology. 2019;26(3):390-399.e5. PMCID: PMC6632086


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**Heung LJ, Hohl TM.** Inflammatory monocytes are detrimental to the host immune response during acute infection with Cryptococcus neoformans. PLoS Pathogens. 2019;15(3):e1007627. PMCID: PMC6428256


Hilmi M, Neuzillet C, Calderaro J, Lafdil F, Pawlotsky JM, **Rousseau B.** Angiogenesis and immune checkpoint inhibitors as therapies for hepatocellular carcinoma: Current knowledge and future research


PMCID: PMC6747349


PMCID: PMC6868351


Journal Articles


Journal Articles


Jang TL, Kim YI, Scardino PT, Eastham JA. Reply to Effectiveness of radical prostatectomy with adjuvant radiotherapy versus radiotherapy plus androgen deprivation therapy for men with advanced prostate cancer: Do we have certainties today?. Cancer. 2019;125(13):2318-2320.


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Journal Articles

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Kansler ER, Li MO. Innate lymphocytes—lineage, localization and timing of differentiation. Cellular &
Journal Articles

Molecular Immunology. 2019;16(7):627-633. PMCID: PMC6804950


Karasu ME, Keeney S. Cyclin B3 is dispensable for mouse spermatogenesis. Chromosoma. 2019;128(3):473-487. PMCID: PMC6824995


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