

Inside The Library

A newsletter of the NCI at Frederick Scientific Library

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ATRF Library Corner

Buzz, Squeal, Screeeeech! Almost everyone recognizes the musical prelude to a fax transmission, the electronic synchronization step between machines at either end of a telephone line, one sending a message and one receiving. Few people, however, realize Alexander Bain invented the fax machine years before Alexander Bell phoned Mr. Watson. Bain, inventor of the electric clock, relied on clock pendulums for synchronization and electric impulses, generated by a nail passing over the face of charged metal type, from the sending end to blacken chemical soaked paper on the receiving end. Even fewer people realize they may send a fax from the ATRF Library copier. Any Librarian will be happy to show you how.

WHO'S USING THE NCI AT FREDERICK SCIENTIFIC LIBRARY?

For this issue we asked the winners of the 2015 Student Science Jeopardy Tournament, **Jenny Marshall** and **Evan Schauer**, and their mentors, **Dr. Joseph Barchi** and **Dr. Martin Schnermann**, respectively, to write about their recent experiences.

Jenny Marshall, junior at High Point University



This was my first summer working on the Fort Detrick campus in the Chemical Biology Laboratory with Dr. Shailesh Ambre and Dr. Joseph Barchi. When Dr. Barchi first approached me about participating in the Student Jeopardy Tournament, I tried to hide my reluctance with excitement. I was petrified of completely embarrassing myself. However, I was lucky enough to be able to partner with the brilliant Evan Schauer. I was not expecting much as we walked over to the Tournament. I, being a fan of Jeopardy, would occasionally watch and try to answer the questions, with not much success. Fortunately, I recognized a lot of familiar faces when I walked in. The friendly people, coupled with the delicious donated refreshments, helped to ease my anxiety. As the rounds progressed, Evan and I developed a great partnership, which was greatly enhanced by his mastery of the buzzer. The competition was intense, as there were a lot of intelligent teams. It all came down to the final Jeopardy question in the end. Overall, it was an amazing experience, and I would participate again in a heartbeat. There was a strong sense of competition, yet camaraderie, between the teams that I had never experienced before, even with my sports background. I am extremely thankful for my partner Evan, my amazing mentors, all of the event sponsors, and the Scientific Library staff who made this extraordinary event happen.

Evan Schauer, senior at University of Texas - Rio Grande Valley



Playing in the Science Jeopardy Tournament was some of the most fun I've had this summer. The questions really piqued my interest with general knowledge of science and history, and I could feel my heart thundering right before I would answer. I've always enjoyed trivia games, and it's cool to see how much information you've accumulated through years of reading and listening. All those random facts that your teacher

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NCI at Frederick Scientific Library ~ Building 549

On the web at: ncifrederick.cancer.gov/ScientificLibrary/

Hours: Monday - Friday 8:30am - 5:00pm

Main Phone Number: 301-846-1093 ~ Circulation: x5848 ~ Reference: x1682

Library Orientation

The next Library Orientation will be held on **Thursday, October 8, from 10:00 a.m. – 11:00 a.m.** in the Library's Technology Training Lab in Building 549.

We invite all employees to attend our informative session to learn about the many services and resources offered by the Library. Registration is not required. If you are unable to attend the October session, please contact the Library in Building 549 at x1682, the ATRF Library at x4942, or via email at NCIFredLibrary@mail.nih.gov to arrange an alternate date and time to suit your schedule.

Resource of the Month

Web of Science (WOS) Core Collection Databases

Web of Science (WOS) provides access to the world's leading scholarly literature in the sciences, social sciences, arts and humanities, proceedings of international conferences, symposia, seminars, colloquia, workshops, and conventions. You may search across all products simultaneously using a common set of search fields for comprehensive results. Databases in the collection include **Science Citation & Social Sciences Index Expanded** (1900-present), **Conference Proceedings Citation Index** (1990-present), **Book Citation Index** (2005-present), **Current Chemical Reactions** (1985-present), **Index Medicus** (1993-present), as well as **BIOSIS Citation Index** (1926-present), **Data Citation Index** (1900-present), **SciELO Citation Index** (1997-present), and **Zoological Record** (1864-present). **WOS** may be accessed from the Scientific Library's Databases page at <http://ncifrederick.cancer.gov/ScientificLibrary/>. For assistance with, or to learn more about this resource and others, please contact the Library at NCIFredLibrary@mail.nih.gov.

Featured Website

Historical Dietary Guidance Digital Collection

<https://nutritionhistory.nal.usda.gov/>

USDA's National Agricultural Library (NAL) has collected and digitized dietary advice documents published by the United States government over 100 years. Available as a single, online, searchable database, users may browse and search for full text of over 900 historical and contemporary federal dietary guidance publications. As many documents are historical, users should not assume the content reflects current, scientific knowledge, policies, or practices. As a part of the **NAL Digital Collections** (<http://naldc.nal.usda.gov/naldc/home.xhtml>), the site also provides reliable, long-term online access

Book Swap Turns 15!

Fifteen years ago.

We had just survived Y2K and everyone's computers still worked. The start of a new millennium had begun! AOL agreed to buy Time Warner for \$186.2 billion, still the largest corporate merger to date. We were saddened when the final Peanuts cartoon was published following the death of illustrator Charles M. Schulz. The Play Station 2 was released, which was the best-selling game console of all time. The NASDAQ reached an all-time high in March, approaching the peak of the dotcom bubble. In June, a preliminary draft of genomes, as part of the Human Genome Project, was announced at the White House by President Clinton. The summer Olympics were held in Sydney, Australia. There were still two World Trade towers in New York City. In November, the first resident crew entered the International Space Station, opening space for human habitation ever since. The Presidential election brought discussions of "hanging chads."

That Fall the Scientific Library co-sponsored its first Book Swap with the Employee Recreation Council (ERC). There were 2504 books collected that first year. Many employees participated in the Swap, including forty-three who still work at NCI at Frederick!

Please join us as we celebrate the 15th Annual Scientific Library Book & Media Swap. This is an item-for-item exchange of books, DVDs, and CDs. Please bring your gently used items to the Library between Monday, October 5, and Tuesday, October 27. The Swap will open in the Building 549 Conference Center Lobby at 10:00 a.m. on Wednesday, October 28, and will continue in the Library through Friday, November 27, at which time the remaining volumes will be donated to a local charity. Come be a part of history and get some "new" books to read!



A Brief Look at Library Bibliometrics Services

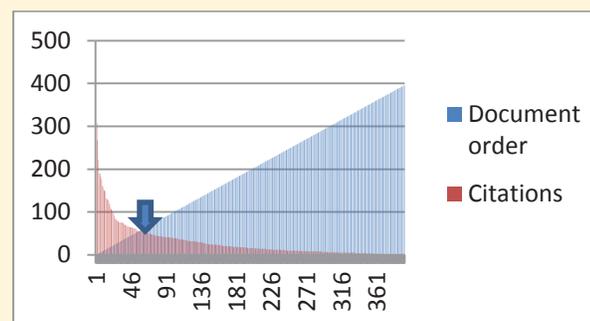
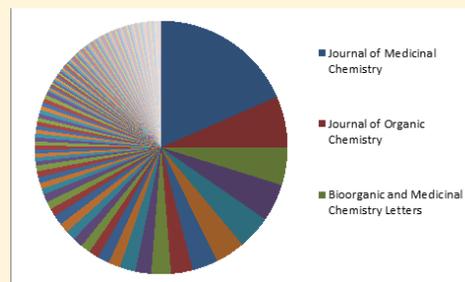
In our Summer 2015 newsletter, we talked about some of the feedback we received at the Library's booth at the Research Festival. Quite a few of our visitors were surprised to learn about some of our services, including 1) assistance with interpreting bibliometrics, 2) verifying accuracy and format of citations to support those writing an article, and 3) one-on-one assistance with information projects, citation management, and bibliographies. We promised to provide our readers with more details about each of these services and why one might want to take advantage of them. In this issue, we'll talk about bibliometrics and why you might be interested in it.

Bibliometrics is the statistical analysis of written works to demonstrate their impact in terms of popularity, scope within a field, etc.; more important, this analysis can be used to assess the output and impact of the research of an individual scientist. To illustrate points made, we used SCOPUS to identify those authors at NCI at Frederick who have been most prolific in publication; this search revealed that Dr. ABC has written 396 publications from 1972 to 2015, the most of any except one other scientist here. Metrics associated with these publications can be evaluated at the **article** level, the **journal** level, the **author** level, and **discipline** level, and can range from simple citation counts to mathematical formulae to take into account both output and impact.

Article level analysis looks at how often a journal article is cited by other authors in association with the subject and the number of people working in that field, including for example, altmetrics. Journal level analysis looks at impact factors and SCImago journal rankings (weighted by the prestige of a journal), etc. Author level analysis looks at an individual scientist's publication activity, such as his h-index. In the case of Dr. ABC, here is a sampling of some interesting data:

- He has published in 87 different publications
- Impact factor is a measure of the frequency with which the "average article" in a journal has been cited in a given period of time. Among those journals in which his articles appear most often, their impact factor is as follows:

Journal of Medicinal Chemistry	5.480
Journal of Organic Chemistry	4.564
Bioorganic and Medicinal Chemistry Letters	2.338
Stem Cells	7.133
Cancer Research	9.284



His h-index is 52. This means that 52 of his articles have been cited at least 52 times, illustrating both productivity and impact. While the h-index has become a popular metric, there are a number of variations on it that have emerged which merit examining.

His articles have been cited a total of 11,745 times, the most in 2014 (1,033) the least in 1978 (1), and 80 times as median in 1993.

One hundred fifty scientists have co-authored papers with him; exploring which institutions they work in can demonstrate Dr. ABC's depth of collaboration.

Some emerging, non-traditional metrics are also now available. Among these are altmetrics, which assess the ways articles are viewed and downloaded on the Internet; discussed via blogs, Twitter, Facebook and other social media; cited by Google Scholar or Wikipedia; saved or bookmarked; and recommended by others.

All of these metrics have their plusses and minuses, can be easily manipulated, and therefore need to be considered with an open mind. The bibliometric tools each cover a different range of data and return different results for an author. While our newsletter does not permit a lengthy discussion of bibliometrics, we would be happy to demonstrate them upon request. The staff of the Scientific Library can help you assess these various tools to determine bibliometrics for your publications.

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forces you to memorize or you just think are interesting suddenly pop up, and when you answer correctly, you feel like you've actually been learning more than you think you have. Getting to meet other summer interns was awesome; too often I think of myself as part of just one lab, and not as a part of a larger scientific community of budding scientists. I was very thankful to be able to play, and even more grateful to be working here in the first place. Every day before work I would have to remind myself that this was real, I had taken a brochure and turned it into one of the most fun and productive summers I've ever had. I'm thankful for everyone in the Chemical Biology Laboratory and especially the Schnermann lab for making me feel at home and helping me every step of the way.

Dr. Joseph Barchi, Head of the Structural Glycoconjugate Chemistry and NMR Group of the Chemical Biology Laboratory, and Mentor to Jenny Marshall



One of the most rewarding things about being an investigator at the NCI-Frederick is having the opportunity to mentor young students interested in experiencing laboratory research first-hand. This summer I had the pleasure of mentoring Jenny Marshall, a chemistry student from High Point University in North Carolina. Her intelligence and inquisitive nature was bolstered by an incredibly cheerful and pleasant disposition. After only a short time in the lab, I knew I was going to "strongly encourage" her to take part in the Student Jeopardy Tournament.

My initial enthusiasm for Jenny and her scientific savvy was solidly confirmed with her win in the Tournament. Couple this with her progress in the lab and I knew I had a real "winner." I look forward to her returning for another summer next year and a repeat of being Jeopardy champion!

Dr. Martin Schnermann, Head of the Organic Synthesis Section of the Chemical Biology Laboratory, and Mentor to Evan Schauer



Evan Schauer attends college in University of Texas – Rio Grande Valley. During his summer research position he investigated the chemical reactivity of eudistidine A, an unusual polycyclic marine natural product that blocks the cancer-relevant protein-protein interaction between p300 and HIF-1 α . Evan diligently explored the reactivity of eudistidine A and discovered a range of molecules that covalently modify the natural product. His efforts shed light on the unique reactivity of the system, which has led to the synthesis of several eudistidine analogs. Moreover, these efforts helped elucidate details pertinent to understanding the mechanism of action of the natural product. Outside of lab work, Evan enjoys reading. After departing the NCI and completing his senior year of college, he will attend Baylor Medical School to pursue a medical degree.

New Scientific Library Website

The Scientific Library is pleased to announce the arrival of our new and improved website! Thanks to the hard work of the staffs of Computer & Statistical Services and the Library, this new website adheres to all NIH requirements. This website still provides access to all of the Library's electronic resources, as well information about Library services.

The URL for the Library's website has changed. The new URL is ncifrederick.cancer.gov/ScientificLibrary/. Everyone is encouraged to bookmark this new URL for faster access. The old website will redirect you to the new website. Please contact the Library with any comments on the new website.