

## Putting Information to Work in the Research Lab

Yannick Pouliot is Lane's first Bioresearch Informationist, a new position focused on enhancing the way laboratory researchers find and use biosoftware tools and databases. Over the past three years, as we developed strategic initiatives for the Lane Knowledge Management Center, graduate students, postdocs and investigators have all described the need for tools and training to simplify their lab work. The bioinformationist program is all about devising ways for bioresearchers to find the optimal resource and minimize its learning curve.



— continued on p.3

*“There are more than 6,000 biosoftware programs out there, and more than 500 databases. Given the complexity of each of these resources...one wants to make sure it is the right resource.”*

— Yannick Pouliot

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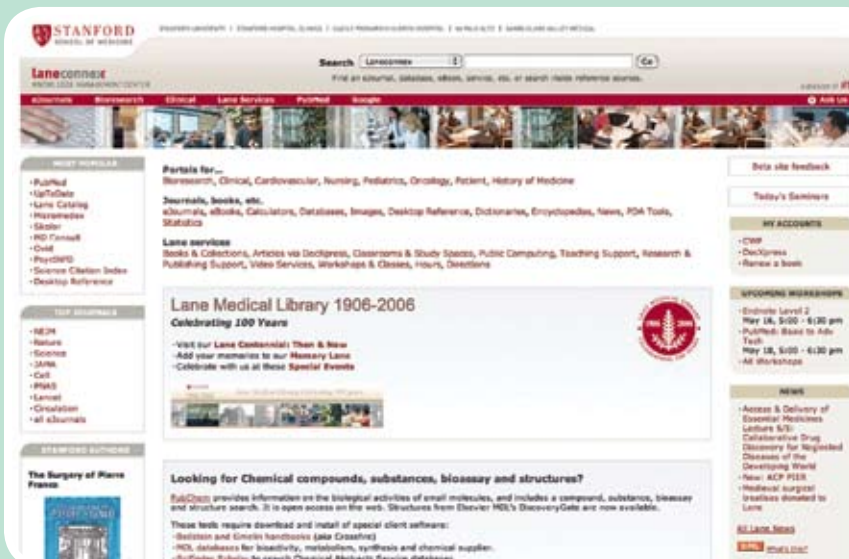
## Introducing LaneConnex: the Knowledge Connexion

The old Lane website focused on links. The new LaneConnex focuses on searching and finding information. Given the growth of online resources at Lane and the popularity of the simple Google search, the design team decided to build a knowledge integration application that can grow across content sources, both local and external, into the future.

LaneConnex provides portals and pathways to multiple content types, non-digital content, and integrates widely used tools such as PubMed and Google. It creates a clean image that melds with our many partners (e.g., Office of Postdoctoral Affairs, CMGM, SHC

Research Council, LPCH LINKS). LaneConnex features domain-based portals that allow searches to be simultaneously run against many other references tools all at once. It places high value and interactive tools upfront using deep linkages (e.g., medical calculators and biotools) and integrates how-tos, FAQs, and services into the mainstream. Automation of news both on the site and by RSS feed are among some of the new push technologies.

LaneConnex will launch in preview in June. Watch for the link on our current Lane site. Please fill out the survey to tell us what works, what doesn't and what we should design for the next release.



### LaneConnex Will Launch in Preview in June

Please fill out the survey and comments to tell us what works, what doesn't and what we should design for the next release.

**We need your input!**

Watch for the link on our current Lane website at:

<http://lane.stanford.edu>

# Collection on the Move



Courtesy of Apple

## MP3s of MD Courses

Students will be able to continue to listen to their lectures on their iPod or other MP3 player. Our Winter quarter pilot was so successful that audio files for all required MD courses will become part of our regular service.

*Thanks so much! This is amazing—exactly what I've been wanting to do!*

*I really appreciate the fact you're looking out for us.*

— Peter Simon, SMSI

Since fall 2005, over sixty thousand volumes of books and journals have been transferred to an off-campus storage facility. Each week we move over a thousand additional volumes. Stored materials mostly consist of titles available digitally, especially digital backfiles of older journal volumes, and books being scanned as part of the Google Book Search project. In addition, transfer of low use titles helps us gradually move our collections out

of the Lane building in preparation for renovations and construction of the new Learning and Knowledge Center. Physical volumes of a stored title are indi-



cated in the Lane Catalog as: OFFSITE. These items can be retrieved within a couple of days by clicking "Request." Since 90% of our current journals are online, checking the eJournals page and using the LaneConnex search is a good starting point.

If not found online, the Lane Catalog provides Lane's complete print holdings and the request mechanism. For items not owned by Lane, you can request the book or journal article you need via DocXpress.



## PubMed Makeover

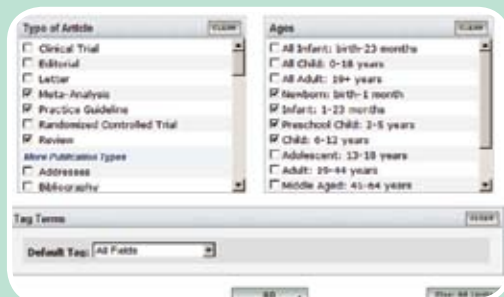
**NEW!**

### "Limits" Interface Improved!



PubMed has substantially redesigned and enriched its Limits search interface. To see the new Limits options, connect to PubMed and click on the Limits tab. To take advantage of the expanded content, you can now make

multiple selections from the various Limit categories. In the example below, the search was limited to three article types: Review, Meta-Analysis, Practice Guidelines, and four age groups: Newborn, Infant, Preschool Child, Child.



**NEW!**

### Store Citations with "My NCBI Collections"

For several years, PubMed has allowed searchers to save their search strategies with "My NCBI." Now, you can save entire sets of citations using a new utility called "My NCBI Collections!"

- Make sure your browser will allow pop-ups
- Register with My NCBI by clicking on the "My NCBI" link under "PubMed Services"
- Run your search and then use "Send To" to send selected citations to the "Clipboard"

- Click on the "Clipboard" tab, choose "Send To" and select "My NCBI Collections"
- To retrieve your citations at a later date, connect to PubMed, login to My NCBI, and click on the "Collections" tab

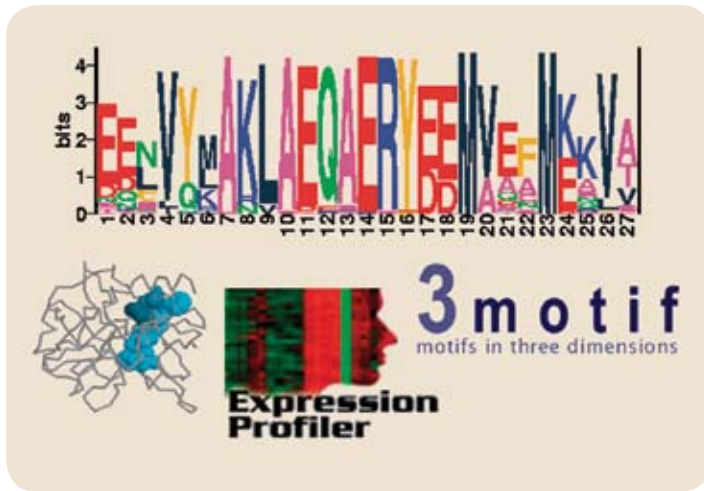


You can send 500 citations at a time to the Clipboard and then to My NCBI Collections, and you can store 1,500 citations in each Collection. Each "My NCB" account can hold up to 100 collections.

### Want to learn more?

Go to <http://lane.stanford.edu/classes> and sign up for "PubMed: Basic to Advanced Techniques."

# Putting Information to Work in the Research Lab (cont.)



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“With more than 6,000 software programs, and more than 500 databases, and given the complexity of each of these resources and the concomitant effort in learning to use even a single of these, researchers want to make sure they select the right resource. And that doesn’t even address the problem of finding the correct resource in the first place,” says Pouliot.

Lane’s bioresearch informationist program will provide researchers with optimal tools and training. A major goal of the program is to facilitate learning by introducing extensively curated “knowledge capsules” which point researchers to books, tool reviews, selected journal reviews, and resources such as Perl source code.

Yannick Pouliot is creating searchable “bio-facts” as part of a larger Lane FAQ system to answer questions at the point of need. Both the BioFAQs and a new Bioresearch Portal will be chockfull of help for the harried laboratory scientist when the new LaneConnex website is launched in June. This portal will promote interdisciplinary resources, such as finding statistical help and appropriate software.

One of the critical elements of Lane’s bioresearch informationist program is training that puts

bioinformatics to work in the lab. Pouliot is concentrating initially on training that helps researchers manage their experimental data. A record number of attendees participated in the workshop this spring which focused on using Excel and MS Query to dig out from under the avalanche of data. These simple tools can assist researchers in summarizing large data sets for visual inspection. Partnership is another critical element of Lane’s bioinformation program. Two resource collaborators are the Center for Molecular and Genetic Medicine (CMGM) and the Swain Chemistry and Chemical Engineering Library. CMGM offers a variety of commercial software by membership for sequence analysis, molecular modeling, graphics and image analysis, databases, statistics and other tools. The Swain Library provides access and training to specialized chemical structure tools and databases. Lane recently licensed the Proteome BioKnowledge Library, to provide highly curated data on the proteome of selected organisms based on the literature. It is the best way to quickly assess a vast set of protein properties.

Yannick Pouliot comes to Lane with extensive experience in the science and practice of com-

putational biology, both as a researcher with a diverse publication record, and as a manager of informatics departments in biotechnology and software companies such as Kalypsys, DoubleTwist and Progenitor. Most relevant to his work at Lane, in 2001 he was Director of Bioinformatics Knowledge Engineering at DoubleTwist, where he originated the application of automated research agents for biocomputational analysis, ultimately used by 25,000 researchers worldwide.

Pouliot received his PhD degree from the Department of Biology at McGill University for research in the role of intercellular adhesion in muscle formation. He did post-graduate studies at the Généthon human genome laboratory in Paris, France.

For more information on courses, dates, locations and registration, go to:

<http://bioinfoweek.stanford.edu>



## Bioinformatics Week June 12–16

From June 12 to 16, the Beckman Center for Bioinformatics Resources, the Lane Medical Library and the Stanford University Libraries will be hosting Bioinformatics Week, a series of expert-level lectures and hands-on workshops on a wide range of bioinformatics topics. The majority of the week is devoted to training focused on resources offered by the National Center for Biotechnology Information (NCBI) and the European Bioinformatics Institute (EBI). NCBI workshops will focus on nucleic acids, whereas EBI workshops will concentrate on protein and software programming. Lane’s Bioresearch Informationist, Yannick Pouliot, will present a case study involving the automated candidate gene summarization using SOAP and Excel. Other presentations will be made by the UCSD Genome Group and the Stanford Microarray Databases Group.

## Medicine Grand Rounds Online

Medicine Grand Rounds sessions are now available on our website. Go to Lane’s Clinical Portal and view the link under the Learning tab. You will need a SUNet ID to gain access to the videos.



*Hodgkin’s Disease: A Stanford Success Story, May 11, 2006*  
Saul A. Rosenberg, MD, Professor of Medicine, Radiation Oncology Emeritus, Stanford School of Medicine

Lane Medical Library  
Knowledge Management Center  
300 Pasteur Drive, L109  
Stanford, CA  
94305-5123

650.723.6831  
<http://lane.stanford.edu>

## Lane Centennial Open House



“ *Lane Library has to be considered at the heart and soul of everything that happens in medicine because of its connection to knowledge.*

– Philip A. Pizzo, MD,  
Professor of Pediatrics and of Microbiology and Immunology,  
Carl and Elizabeth Naumann Professor,  
Dean, Stanford University School of Medicine



Lane partnered with the Stanford University Medical Center Alumni Association on April 28th to kick off Lane’s year-long Centennial Celebration. If you weren’t able to join us for this festive event, exhibits and posters will be on display throughout the year and additional video vignettes captured at the Open House are now on the Centennial Website along with memories captured on Memory Lane. We will continue to collect memories and showcase video vignettes on the website throughout the year. All of the content for the Lane Centennial Website will be put into a time capsule for the next 100 years.



Check the Centennial website for details:  
<http://lane.stanford.edu/100years>