



# The BMI Buzz

October 2006

Issue 1

[www.uuhsc.utah.edu/medinfo](http://www.uuhsc.utah.edu/medinfo)



The University of Utah  
Biomedical Informatics

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## Where in the world? ... Searching for BMI alumni

We are searching for contact information on a number of alumni. If you are an alumnus of the program please provide your current contact information — See instructions on page 2.

And everyone — faculty, current and former students: Please look at the list of alumni on at the top of page 2, and let us know if you have more current contact information for these individuals. Email any information you may have to [kathy.stoker@hsc.utah.edu](mailto:kathy.stoker@hsc.utah.edu).

## By way of introduction

Introducing a new publication to inform faculty, students, alumni, and staff of the current happenings in the department. Please send news of submitted and awarded grants and contracts; published papers; meeting presentations, etc. We solicit and will review all contributions. The newsletter will be published quarterly.

The working title for the newsletter is “The BMI Buzz” only until we can gather title suggestions from you. Please send your suggestions soon so we can have a new title by the January issue. All suggestions and other news-worthy items should be sent to Kathy Stoker, Editor, at [kathy.stoker@hsc.utah.edu](mailto:kathy.stoker@hsc.utah.edu). She is working under the direction of Department Chair, Joyce A. Mitchell.

## Utah Reunion at the Fall AMIA Symposium

It is our pleasure to invite you to the **Utah Reunion** to be held on Monday, November 13, 6:30-8:30 p.m., in the Map Room, Terrace Level, Hilton Washington and Towers, in conjunction with the AMIA meetings. Please plan to join us.

The American Medical Informatics Association Annual Symposium will be held at the Hilton Washington and Towers in Washington, DC, November 11-15. These meetings provide a key venue for the exchange of ideas concerning biomedical and health informatics. The theme of this year’s program is “Biomedical and Health Informatics: From Foundations to Applications to Policy.” Information on this year’s offerings can be accessed at [www.amia.org](http://www.amia.org).

Many students and faculty members from the department of Biomedical Informatics at the University of Utah will take part. Planned presentations by individuals from our department will be listed on subsequent pages of this newsletter.

## New faculty in our department

The Department of Biomedical Informatics is growing. Over the past ten months the faculty has expanded with the additions of **John F. Hurdle**, MD, PhD (January 1); **Scott Narus**, PhD (April 1); **Lewis J. Frey**, PhD (June 1).

The newest addition is **Catherine Staes**, PhD, MPH, BSN. Dr. Staes was a public health epidemiologist for 15 years prior to receiving her PhD in this Department. She will be developing the Public Health Informatics curriculum, including teaching the Public Health Informatics course and coordinating the Public Health Informatics Journal club and developing a new course in public health surveillance methods.

## BMI department awards certificates

Two of our students were recently awarded the first Graduate Certificates in Biomedical Informatics offered by the Department. Jack Davis and Tobias Rausch received their Certificates in Fall 2006, after completing 15 hours of Informatics coursework. Jack has returned to the Air Force to serve a new tour of duty, and Tobias has entered a PhD Informatics training program in Germany.

## Alumni contact information needed to update website

The department is gathering information about its alumni — and we need your help! If you are an alum of our department, please go to the following link, click on your name, type in the last four digits of your SSN, and fill out the very brief (It will take you 1-2 minutes) questionnaire:

<http://dsmedinfo.med.utah.edu/mi/alumMIsearch.asp>

Also, **we need your help in locating alumni.** Following are names of some of the alumni for whom we do not have current contact information. If you can provide contact information for any of these individuals, email Jo Ann Thompson, [joann.thompson@hsc.utah.edu](mailto:joann.thompson@hsc.utah.edu).

Al-Hashimi, Mukhtar S. Ali	Gundersen, Michael L.	Pope, David	Thorne, Gale H.
Anderson, Milton	Hebdon, Carl Kent	Price, W. Gary	Twede, Michael
Bai, Shi (Alex)	Hicken, Robert	Reynolds, Christopher J.	Van Hook, Stacy H.
Bean, David L.	Hill, Jon Rice	Richards, Thomas	Waagen, Donald E.
Bennett, Douglas	Ho, Jung-Tsuo	Rossi, Julia Ann	Wadhawa, Demodhar
Berthelsen, Cheryl	Hoak, Sandra Lyn	Ryser, Antoinette F.	Waki, Randy
Beus, Michael Lynn	Holmen, John	Samaveda, Krishna	Waldmann, Richard Allen
Bigler, Adelbert Hush	Hyland, Suzanne	Schnitzer, Paula M.	Wang, Ping
Bond, Edward Lawrence	Jensen, Blake	Schoenberg, Andrew Algis	Wang, Xianbin
Bothner, Ulrich S.	Ji, Kai	Shu, Jing	Wang, Xiaodong
Bradshaw, Richard L.	Koehler, Spencer B.	Smith, Diane Z.	Waterfall, Brian T.
Bulawa, Walter Francis	Kwok, Wilson Yuen-Keung	Smith, J. Carr	Wendler, Paul A.
Byrd, Jonathan Lee	Li, Wenqin	Smith, Virginia M.	Wesley, Victor Hugo
Caldwell, James Paul	Lu, Lilly	Smith-Betty, Shelly M.	White, Ruth Goldberg
Cannon, Scott	Ma, Xiangyang	Smith-Dixon, Charla M.	Xia, Yong Nian (Chris)
Chen, Bing-Hung	MacGregor, III, James Amos	Song, Li	Xu, Zaichao
Crawford, Bryan D.	Merchant, Mahesh	Steinhaus, Bruce M.	Xu, Zhenzhe
Davidson, Marcel G.	Miller, Gregory Alan	Stevenson MD, Loren	Yang, Lijie
Duncan, Jeffrey D.	Morgan, Matthew	Sun, Shuxing	Yeh, Min-Ken (Patrick)
Eagon, J. Chris	Nagel, Timothy Lee	Swensen, Jeffrey J.	Young, Roger S.
Edman, Leslie	Neel, S. Trent	Targ, Ween-Ping	Young, Wang H.
Evans, Arnold	Oniki, Thomas	Tebbs, Randall D.	Zhang, Qian
Fang, Gang	Palma, Lombardo F.	Thomas, H. Clark	Zheng, Zhenzhen (Jane)
Gennaro, John L.	Perkins, Monica	Thomas, Randal J.	Zhou, Zhenmin

## Developing Distance Learning

Students Reid Holbrook and Vik Deshmukh, along with faculty members John Hurdle and Scott Narus, have been busily working on using the distance learning technology available in HSEB rooms 4100B and 5100B. Their goal was to use the available infrastructure provided in these rooms to achieve a synchronous/asynchronous distance learning distance learning platform for use by students.

Using the podium PC located at the front of the room, the presenter can go about his/her business without worrying about the mechanics of connecting to the distance learners. Everything is captured off of the podium PC by the teaching assistant at the back of the room, and is encoded by Windows Media Encoder. The plan is to tap into the two wall-mounted video cameras in the rooms to provide a live video of the presenter and the students.

The video is placed in the bottom corner of the screen, while the presenter's Powerpoint slides are seen in the background. Audio is captured from all microphones in the room. The presentation is then streamed live to recipients and archived for later viewing. Most importantly, this entire process is almost completely transparent to the presenter.

Presently, testing is being done in the two Foundations classes and has been very successful. Future plans include using an infrared remote to control the preset camera positions to toggle the cameras, using a digital white-board during the presentations, and streaming through a dedicated Windows Media Server. The hope is to go live in January!

## Morgan Award winner announced

**Shobha Phansalkar** is the recipient of the 2006 John D. Morgan Fellowship. This award was established by John D. Morgan, a former student and faculty member of the Department of Biomedical Informatics and is open on an annual basis to PhD students in the department. Shobha will receive a cash award and will be honored at a luncheon. She will present her paper at an upcoming Graduate Seminar on Nov. 28.

## More awards, honors and activities

**Alun Thomas** was invited to participate in the Sir Isaac Newton Academy for Mathematical Sciences at Cambridge University for three months in 2006. The focus will be on stochastic computation for the biological sciences; this invitation-only program has participants are considered to be among the best in the world.

While there, Alun will also present seminars at Nottingham University and Bristol University.

**Lewis Frey** was selected by the VP of Research as one of two faculty from the University of Utah to apply for the Beckman Foundation's Young Investigators Program which, "... is intended to provide research support to the most promising young faculty members in the early stages of academic careers in the chemical and life sciences." (<http://www.beckman-foundation.com/byi.html>)

The title of his research is "Enhancing Mutation Identification in Comparative Genomic Hybridization Using Pathway and Somatic Mutation Data." The goal of this project is to advance the treatment of cancer by discovering potential drug targets. This is done by determining if classifiers built from known genetic mutations can achieve an improved identification of true insertion and deletion mutations in Comparative Genomic Hybridization measurements. This will open up new avenues of research by speeding the discovery of cancer related genes in high-risk pedigrees.

The NLM approved **John Hurdle's** visiting scholar's appointment at the Lister Hill National Center for Biomedical Communications (for Jan-May 2007); He will work with Dr. Tom Rindfleisch on natural language processing techniques used with real-world, raw clinical texts.

Faculty member **Wayne Peay** and former student **David Classen** have been elected to ACMI.

Student **Chris Olola** was awarded the Atherton Scholarship by the Health Sciences Center Office of Development and received a cash scholarship in the amount of \$500. The award was presented at a luncheon on September 26.

**Shobha Phansalkar** volunteered at the local chapter of HIMSS forum on "Information Technology direction, challenges, and concerns for the next 5 years" held on October 18th at the Historic Fort Douglas Officers Club. The UHIMSS forum consisted of presentations by CIOs from local hospitals and also provided networking opportunities with the local informatics community.

## Posters presented (July—October 2006 and upcoming presentations)

**Kristina Allen-Brady** will present at the International Genetic Epidemiology Society meeting in St. Petersburg Beach, Florida in November 2006. Title: Early age-at-diagnosis is a characteristic of familial lobular breast carcinoma. Authors are **Kristina Allen-Brady & Lisa Cannon-Albright**.

The following posters were presented at the **American Society of Human Genetics, October 9-13, 2006:**

- **Nicki J. Camp**, Jathine Wong, **Alun Thomas**. "Valid Haplotype Association Analyses Accounting for Phase Uncertainty."
- **Lisa Cannon-Albright**, Jim Farnham, **Nicki J. Camp**. "Localization of a Prostate Cancer Predisposition Gene to a 416,515 bp Region on Chromosome Xq28 in Utah High-Risk Pedigrees."
- **Karen Curtin**, Jathine Wong, **Kristina Allen-Brady**, **Nicki J. Camp**. "PedGenie 2.0: Metagenetic Association Testing in Mixed Family and Case-control Designs."
- **Benjamin Horne**, J. L. Anderson, J. F. Carlquist, J. B. Muhlestein, **Nicki J. Camp**. "Multi-SNP Genetic Risk Scores Increase Power to Predict Clinical Disease Phenotypes."
- **G. Bryce Christensen**, **Nicki J. Camp**, Farnham JM, **Lisa Cannon-Albright**. "Genome Wide Linkage Analysis for Aggressive Prostate Cancer in Utah High Risk Pedigrees."
- **Kristina Allen-Brady**, Jim M. Farnham, **Nicki J. Camp**, E. Ostrander, **Lisa Cannon-Albright**. "BRCA2 Mutations in Utah High-Risk Prostate Cancer Pedigrees."

**G. Bryce Christensen**, **Nicki J. Camp**, JM Farnham, and **Lisa Cannon-Albright** produced a poster accepted for presentation at International Genetic Epidemiology Society conference, Tampa, FL, November 2006: "Genetic Susceptibility of Prostate Cancer: Genome-wide Screen of Men with Non-metastatic Disease."

**Michael Rubin** recently presented a poster at the annual Infectious Diseases Society of America meeting in Toronto. The title of the poster was: "Comparison of Infection Control Practices and Information Technology Capacity at Rural and Urban Long-Term-Care Facilities Throughout Utah." **Matt Samore** was also instrumental in producing the poster.

## Grant activity (July—August 2006)

**Joyce Mitchell** and **Lisa Cannon-Albright** are the University of Utah PI and co-PI for a postdoctoral fellowship supplement to an existing subcontract with the Harvard National Center for Biomedical Computing. Isaac Kohane is PI of the Harvard i2b2 center for translational research project. This new funding will support a postdoctoral fellow to serve as a liaison to develop a collaboration to evaluate the scalability of the i2b2 tools to be used on large clinical data repositories and with extensive genealogical data.

**Nicola J. Camp** is PI of a grant entitled "Transferability of Tagging-SNPs across Disease Status: Colon Cancer and XRCC2" recently awarded by the National Cancer Institute. **Lisa Cannon Albright** will serve as co-investigator and Biomedical Informatics graduate student, **Karen Curtin** will also work on the project. It is a two year collaborative effort with colleagues in the UK to characterize the genetic architecture of the *XRCC2* gene; perform association analysis for the *XRCC2* tSNPs and haplotypes in colorectal cancer resources; design and perform simulation studies to investigate the transferability of tagging-SNPs across disease status.

A one-year University of Utah Catalyst Grant entitled "Mechanisms and Treatment of Chronic Fatigue and Fibromyalgia Syndromes" began October 1, 2006. Drs. Lisa Cannon Albright and Nicola Camp will work with University doctors Alan Light, Kathleen Light and Richard Chapman and others on an interdisciplinary basic and clinical scientist team approach to develop innovative research into the potential causes and treatments of CFS and FMS. **Lisa Cannon-Albright** is PI of Project 3: Understanding the heritable component. **Nicola Camp** is PI of the Integrative Analysis Core.

**Lisa Cannon-Albright**, is PI of a one-year Utah Dept. of Health Asthma Program grant entitled "Genealogical Assessment of Heritable Predisposition to Asthma." Biomedical Informatics student, **Craig Teerlink**, will work with Dr. Cannon Albright to analyze Intermountain Healthcare medical data in an effort to examine the genetic relationship among patients with asthma and understanding heritable predisposition to asthma within the Utah population.

A one-year NCI award has been given for a caBIG Populations Sciences Special Interest Group (SIG) grant. **Lisa Cannon-Albright** will be PI; **Lewis Frey**, **Nicola Camp**, **Alun Thomas**, and **Scott Narus** will be co-PIs. This award provides funding for monthly teleconferences and two meetings to discuss how population sciences research can contribute to caBIG and vice-versa.

**John Hurdle's** NCI Grant was successfully renewed in September. It is called "Evaluation of Adverse Drug Reactions during Cancer Drug Clinical Trials," and is a study of data completeness in paper- and electronic-based IRB adverse drug events submissions.

The NLM-funded Biomedical Informatics Training Grant will be awarded with the start date of July 1, 2007. **Joyce Mitchell** is the PI of the grant with both **Lisa Cannon-Albright** and **Peter Haug** serving as co-PIs.

**Joyce Mitchell** is a co-investigator on an HRSA-funded planning grant to develop a seven-state registry for newborn screening and long-term follow-up. The PI for this grant is Jeffrey Botkin, MD, a pediatrician and also the Associate Vice President for Research Integrity. Student **Reid Holbrook** will be working on this project.

**Joyce Mitchell's** contract with the NLM for her work on the Genetics Home Reference was extended until March 2007.

**Joyce Mitchell** and the department received a gift from the Cerner Foundation for a student internship in Kansas City. Effective 7/1/06 to 12/31/06, it is a \$4000 "Charitable contribution for the support of **Vikrant Deshmukh's** internship at Cerner."

**Nicola J. Camp** is PI of a grant application recently submitted to the National Cancer Institute entitled, PedGenie: Comprehensive Genetic Association Testing Software. Recent Biomedical Informatics Ph.D. graduate, **Kristina Allen-Brady**, will play an active role on this project to develop a freely available, comprehensive, flexible and user-friendly genetic association testing software that offers cutting edge genetic analysis capabilities to researchers.

**Nicola J. Camp** is PI of a Susan G. Komen Breast Cancer Foundation grant application entitled "Identification of Breast Cancer Susceptibility Genes in Utah High-risk Pedigrees." **Lisa Cannon-Albright** is co-investigator. If funded, this project will test the hypothesis that CASP8 and other genes of the apoptosis pathway act as low penetrance breast cancer genes.

**Nicola J. Camp** is PI and **Lisa Cannon-Albright** is co-investigator of an International Myeloma Foundation grant application, entitled "The Familiality of Multiple Myeloma and Related Phenotypes." This one year project will attempt to describe the familial risk of multiple myeloma (MM) and to determine appropriate study designs to enable subsequent powerful genetic studies to identify genes predisposing to MM.

**Lisa Cannon-Albright** is PI of an NIH/NLM grant application, entitled "Analysis of the Familial Component to Disease in a Biomedical Resource with Linked Genealogy." **Dr. Stanley Huff** will lend his expertise as co-investigator on this five year project. With funding anticipated 12/1/06, the goals are to analyze biomedical and genealogy data to define the heritable component to many health and disease related traits not previously studied with the intent to identify and understand disease predisposition, risk-modifying and disease-associated and health-associated genes.

## (Grant activity, continued from previous page)

**Lisa Cannon-Albright** is PI on an NIH application to continue her “Mapping and Cloning Prostate Cancer Predisposition Loci” project that recently ended. **Nicola J. Camp** and **Alun Thomas** are co-investigators. This project will tackle the significant issue of intra-familial heterogeneity in our ongoing search for prostate cancer predisposition genes.

**Lisa Cannon Albright** is PI of an Arthritis Foundation grant application: “Identification of Genes Predisposing to Arthritis and Associated Disorders.” Its goals are to study a unique and powerful pedigree in Utah that appears to be the largest Juvenile Rheumatoid Arthritis pedigree identified to date; to localize and identify the gene that is responsible for the JRA excess among the members of the pedigree. Biomedical Informatics student, **Nephi Walton**, has already done a great deal of preliminary work on this project.

**Lisa Cannon Albright** is PI (application submitted) for a University of Utah Internal Interdisciplinary Research grant, “Understanding the Heritable Component of Auditory Processing Disorders.” Dr. Cannon Albright will work with Thomas Parks of Neurobiology and Anatomy and Drs. Hans Breiter and Gregory Gasic of Radiology to pilot familiarity analyses to begin to understand the genetics of these disorders.

**Alun Thomas** is PI of an NIH R01 grant application, entitled “Graphical Modeling for Linkage Disequilibrium in Genetic Mapping”. **Lisa Cannon Albright** and **Nicola Camp** will serve as co-investigators on this project designed to further develop graphical modeling methods for linkage disequilibrium in association studies, identify by descent mapping, and linkage analysis; and to apply the methods developed to dense genotype assays obtained for distantly related breast cancer cases in extended Utah pedigrees.

**Alun Thomas** is PI of a University of Utah subcontract with the International Agency for Research on Cancer submitted to the NIH. This project entitled “Common and Rare Sequence Variance in Breast Cancer Risk.” includes **Lisa Cannon Albright** and **Nicola Camp** as co-investigators. The goals of this application are to assess the relative contributions to breast cancer susceptibility of common, low penetrance and rare, high penetrance mutations.

**Alun Thomas** is PI and **Lisa Cannon Albright** and **Nicola Camp** are co-investigators on a Department of Defense application entitled “In Silico Genome Mismatch Scanning to Map Breast Cancer Genes in Extended Pedigrees”. The goals of the project will be to fully develop the statistical methodology and computational tools to test the hypothesis that high density SNP genotyping assay of breast cancer cases related in large extended pedigrees is an efficient and powerful study design for finding rare novel breast cancer susceptibility genes.

## Student obtains NCS grant

The National Children’s Study will examine the effects of environmental influences on the health and development of more than 100,000 children across the United States, following them from before birth until age 21. Salt Lake City has been chosen as one of the seven sites across the country for the National Children’s Study and is funding several pilot studies to determine important variables to measure once large-scale data are collected. Student **Kristina Thomas** received a grant for such a pilot study with the Salt Lake site. The grant that she received will be used to determine if point-

of-purchase data from a grocery store is associated with nutritional intake and other health outcomes. Her study will compare point-of-purchase data with two standard nutritional methods: a household inventory (measures food availability in a household) and a food frequency questionnaire (measures frequency of food consumption, or dietary intake). Point-of-purchase data from a grocery store has the potential of improving standard dietary assessment methods by being less expensive and more time efficient to collect, along with not relying on the respondent’s memory or self-reported behaviors.

## Presentations (July—October 2006)

**Carole Gassert** presented information about UCARE AES, the Cerner Academic Education Solution system being implemented in the College of Nursing at the Cerner Health Conference in Orlando on October 11th. The CON is participating in a consortium with Kansas University and University of Missouri Kansas City to share documents, information and strategies for implementing the system in academia.

**Charlene Weir**, A. Salud, **T. Clemmer**, and P. Weissner. ICU team discussions regarding End-of-Life: Making the Decision, accepted for Geriatric Society of America (GSA), 2006 fall conference.

**Dennis L. Parker** presented “Methods and Measurements in High Resolution MRA, Diagnostic Radiology,” Resident and Fellow lecture, September 27, 2006, and “Pushing the Limits in Dynamic and Interventional MRI and MRA,” at Diagnostic Radiology Grand Rounds, University of Maryland, September 27, 2006.

**Stan Huff** presented the Plenary talk at the AHIMA Annual Meeting in Denver, October 11; he also participated in the Standards and Security Subcommittee meeting of the NCVHS on October 11 and 12 in Washington, DC. Stan also served as the Moderator of a session at the 2nd NHIN Forum on October 16 in Washington, DC.

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## (Presentations, continued from previous page)

**Peter Haug** participated in a panel discussion of CIOs at the monthly meeting of the Utah chapter of HIMSS on October 18.

**Lewis Frey** was the keynote speaker at Biotechnology and Bioinformatics Symposium (BIOT) 2006, on October 21. The title of the Keynote presentation was "The Cancer Biomedical Informatics Grid (caBIG)."

**Lisa Cannon-Albright** presented a lecture entitled "Genotypes and Phenotypes: Databases and Diagnosis" at the USP Drug Information Consultation II Meeting, United States Pharmacopeia, USP Board of Trustees Task Force, in North Bethesda, Maryland, on August 22, 2006.

**Lisa Cannon-Albright** spoke at the Family-based Association Studies Meeting in Sheffield, England, on August 4, 2006, about the Utah Genealogical Database.

**Michael Rubin** attended the annual Infectious Diseases Society of America meeting in Toronto where he made a brief presentation to the CDC's EpiCenter workgroup to demonstrate the computer simulation model that he has been working on as part of that collaboration. The model simulates the surveillance of bloodstream infections in a hospital setting to highlight the impact of reliability on different detection methods.

Student **Adi Gundlapalli** was a program speaker for the Vaccine/Therapeutics Workshop and Bioterrorism and Emerging Infections Conference held in Salt Lake City on October 4, 2006. He spoke on the topic "Experience Gained and Lessons Learned: The Early Detection of Infectious Diseases During the 2002 Winter Olympic Games." Adi also presented at Internal Medicine Grand Rounds at the University of Utah on the topic "Biodefense and Emerging Infectious Diseases Research: The Quest for Early Detection," on September 14, 2006.

The University of Utah Department of Biomedical Informatics will be well-represented at the AMIA 2006 Annual Symposium in Washington, DC, November 11-15. Included among faculty and students who will be presenting research in posters, lectures, as participants in panel discussions, etc., are faculty members **Joyce Mitchell, Lisa Cannon-Albright, Scott Evans, Peter Haug, Stan Huff, John Hurdle, Roberto Rocha, Scott Williams**; and students **Chengjian Che, Guilherme DelFiol, Scott DuVall, Aaron Kamaau, Jeffrey Lin, Senthil Nachimuthu, Shobha Phansalkar, Shannon Sims, Jake Tripp, Jeff Washburn, and Steve Wilkinson**.

## Publications (July—October 2006)

**Deshmukh V, Cannings C, Thomas A.** "Estimating the Parameters of a Model for Protein-protein Interaction Graphs." *Math Med Biol.* 2006 Jul 20; [Epub ahead of print] PMID: 16857705 [PubMed - as supplied by publisher]

Latham NK, Jette DU, Coster W, Richards L, Smout RJ, James RA, Gassaway JV, **Horn, SD.** "Occupational Therapy Activities and Intervention Techniques for Clients with Stroke in Six Rehabilitation Hospitals." *Amer J Occupational Therapy* 2006;60(July-August);369-378.

C. Fomous, **Mitchell JA, McCray AT.** "Genetics Home Reference: Helping Patients Understand the Role of Genetics in Health and Disease." *Community Genetics.* 2006;9 (4):274-8.

Popescu M, Keller J, **Mitchell JA.** "Fuzzy Measures on the Gene Ontology for Gene Product Similarity." *Trans of the IEEE on Computational Biology and Bioinformatics,* 2006; 3 (3):1-11.

**Mitchell JA, Fomous C, Fun J.** "Challenges and Strategies of the Genetics Home Reference." *Journal of the Medical Library Association.* 2006; 94(3):336-342.

Guo JY, Kholmovski EG, Zhang L, Jeong EK, **Parker DL.** "K-space Inherited Parallel Acquisition (KIPA): Application on Dynamic Magnetic Resonance Imaging Thermometry." *Magn Reson Imaging* 2006 Sep;24(7):903-15

Ke T, Feng Y, Guo J, **Parker DL, Lu Z.** "Biodegradable Cystamine Spacer Facilitates the Clearance of Gd(III) Chelates in Poly(glutamic acid) Gd-DO3A Conjugates for Contrast-enhanced MR Imaging." *Magn Reson Imaging* 2006 Sep;24 (7):931-40

**Allen-Brady K, Cannon-Albright LA, Neuhausen SL, Camp NJ.** (2006) "A Role for XRCC4 in Age at Diagnosis and Breast Cancer Risk." *Cancer Epidemiol Biomarkers & Prev* 15(7):1306-10.

"Use of a Personal Digital Assistant for Managing Antibiotic Prescribing for Outpatient Respiratory Tract Infections in Rural Communities." **Michael A. Rubin, Kim Bateman, Sharon Donnelly, Gregory J. Stoddard, Kurt Stevenson, Reed M. Gardner, and Matthew H. Samore.** *Journal of the American Medical Informatics Association.* 2006 Aug 23; [Epub ahead of print] It can be accessed at: <http://www.jamia.org/cgi/reprint/M2029v1>.

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**(Publications, continued from previous page)**

**Camp NJ**, Farnham JM, **Cannon-Albright LA**: "Localization of a Prostate Cancer Predisposition Gene to an 880-kb Region on Chromosome 22q12.3 in Utah High-Risk Pedigrees." *Cancer Res.* Oct 15; 66(20):10205-12

Yang Z\*, **Camp NJ**\*, Sun H, Zhao Y, Tong Z, Gibbs D, Chen H, Pearson E, Cameron DJ, DeWan A, Baird J, Bernstein PS, Zabriskie NA, Hoh J, Howes K, Zhang K: "A Variant of the HTRA1 Gene Increases Susceptibility to Age-Related Macular Degeneration. *Science*." Oct 19, 2006; [Epub ahead of print] PMID: 17053109 [PubMed-as supplied by publisher] \*joint first authors

Larson AA, Leachman SA, Eliason M, **Cannon-Albright LA**. "Population-Based Assessment of Non-Melanoma Cancer Risk in Relatives of Cutaneous Melanoma Probands." *J. Invest Dermatol.* Aug 10, 2006;[Epub ahead of print] PMID: 16902418 [PubMed - as supplied by publisher]

Goldstein AM, Chan M, Harland M, Gillanders EM, Hayward NK, Avril M-F, Azizi E, Bianchi-Scarra G, Bishop DT, Bres-sac-de Paillerets B, Bruno W, Calista D, **Cannon-Albright LA**, Demenais F, Elder DE, Ghiorzo P, Gruis NA, Hansson J, Hogg D, Holland EA, Kanetsky PA, Kefford RF, Landi MT, Lang J, Leachman SA, MacKie RM, Magnusson V, Mann GJ, Niendorf K, Bishop JN, Palmer JM, Puig S, Puig-Butille JA, de Snoo FA, Stark M, Tsao H, Tucker MA, Whitaker L, Yakobson E, The Lund Melanoma Study Group, and the Melanoma Genetics Consortium (GenoMEL):(2006) "High-risk Melanoma Susceptibility Genes and Pancreatic Cancer, Neural System Tumors, and Uveal Melanoma across GenoMEL Cancer Research." *Cancer Res.* Oct 15;66(20):9818-28.