



The BMI Buzz

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Issue 5



The University of Utah
Biomedical Informatics

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School year begins

The new academic year for the Department of Biomedical Informatics began on Wednesday, August 15, at a Kickoff Barbecue at Sugarhouse Park. Earlier in the day new students attended an orientation and participated in a campus treasure hunt organized by the department's student representatives. Classes began on Monday, August 20.

The entering class for the department includes 15 students, six of whom are certificate students. These students represent a variety of backgrounds and are well qualified for the informatics program. Two post-doctoral students will also be working and taking classes in the department this year.

Our new degree-seeking students include Karl Diedrich, Liz Workman, David Crockett, David Taylor, Mark Thomason, and Carol Hope, all of the U.S.A.; Cai Zheng and Yuling Jiang from China; and Anthony Wong from Singapore. These students are all seeking PhD degrees.

New students in the certificate program are Douglas Rose, Scott Welsh, Travis McKenzie and Launce Gouw from the U.S.A.; Olga Efimova from Russia; and Bai Luo from China.

Two post-doctoral students, Youssef Al-Sheikh and Rafi Shaik, will also be working and taking classes in the department this year.

To our new students: Welcome to the Department of Biomedical Informatics!

New BMI faculty

Denise Beaudoin, MD, MS, MSPH, has joined the BMI faculty as an Instructor, effective August 6 of this year. Dr. Beaudoin will work with the SOM curriculum committee and the faculty in Biomedical Informatics to develop appropriate content for the incorporation of Biomedical Informatics in the curriculum and will also assist with teaching in the department.

Kristy Allen-Brady, PhD, has also joined the BMI faculty as an Assistant Professor, effective August 15. Dr. Allen-Brady will be involved in teaching and in research work in the department.

New appointment for Joyce Mitchell

Joyce Mitchell was appointed Associate Vice President for Health Sciences Information Technology, effective October 1, 2007. In her new role, Dr. Mitchell is responsible for coordinating and directing the information technology resources for the health sciences academic mission in collaboration with the clinical and University IT services. She will continue to serve as professor and chair of the Medical School's Department of Biomedical Informatics.

Julio Facelli to serve as BMI Vice-Chair

Dr. Julio Facelli will serve as Vice-Chair of the Department of Biomedical Informatics, effective November 1, 2007. Dr. Facelli will take the place of **Lisa Cannon-Albright** who has been serving in the position of Vice-Chair. Thanks to Lisa are in order for her service of more than a year as the first Vice-Chair in the department.

BMI Celebrates 35th Anniversary

On September 14, 2007, the Department of Biomedical Informatics celebrated its 35th anniversary as a department in the School of Medicine. This celebration was held in conjunction with the School of Medicine Alumni Weekend.

The day began with a continental breakfast and a morning program featuring opening remarks from Lorris Betz, MD, PhD, Senior Vice President for Health Sciences and talks by G. Octo Barnett, MD, from Harvard University; Donald Lindberg, MD, Director of the National Library of Medicine; Robert Kolodner, MD, National Coordinator for Health Information; and closing remarks by Joyce Mitchell, PhD.

The department provided a lunch in the Informatics

suite, followed by round table discussions through the afternoon with our guest speakers.

In the evening BMI faculty, students, and alumni enjoyed a reception, dinner and program at the Little America Hotel. Guests were welcomed by BMI Alumni Chair Gerasimos Petratos, MD, MS, followed by a program emceed by R. Scott Evans, PhD. The keynote speaker was Don Detmer, MD, MA, President of the American Medical Informatics Association. Also on the program were Drs. Reed Gardner, Dean Sittig, and Gerasimos Petratos. The evening concluded with a presentation highlighting events in the history of the department by Dr. R. Scott Evans.



Photo, top left: Left to right, students Vasee Sivaloganathan, Isaac Kunz, and Travis McKenzie make sandwiches at the department's lunch buffet.

Photo, top right: Dr. Don Detmer addresses faculty, guests and students at a round table discussion in the Informatics suite.

Photo, left: BMI faculty and guest speakers pose for group photo. Left to right, they are Dr. Don Detmer, Dr. Joyce Mitchell, Dr. Homer Warner, Dr. Octo Barnett, Dr. Allen Pryor, Dr. Donald Lindberg, Dr. Robert Kolodner, and Dr. Reed Gardner.

Spencer Jones receives Morgan Award

Spencer Jones is the recipient of the 2007 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. Spencer was honored at a luncheon on October 23. He received a recognition plaque and a \$6000 cash award. He presented his paper, entitled "Measuring, Modeling, and Forecasting Demand in the Emergency Department," at the Graduate Seminar on October 23.

Fall AMIA Symposium and Utah Reunion

The annual Fall Symposium for the American Medical Informatics Association (AMIA) will be held in Chicago, Illinois, at the Sheraton Chicago Hotel and Towers, November 10 through 14. The meetings provide a key venue for exchanging ideas concerning biomedical and health informatics. Information on this year's offerings can be accessed at www.amia.org.

Many students and faculty members from our department will take part in these meetings. Two BMI students, Eric Hall and Guilherme DelFiol, are finalists in this year's student paper competition at the AMIA Symposium.

AMIA presentations will be reported in the next newsletter.

JOIN US FOR THE UTAH REUNION

In conjunction with the AMIA Symposium, the Department of Biomedical Informatics will present the annual Utah Reunion to be held on Tuesday, November 13, 2007 in Superior A/B of the Sheraton Chicago Hotel and Towers, 6:30-8:30 p.m.

It is our pleasure to invite you to this event, and we hope that you will be able to join us. Light refreshments will be served.

BMI representatives attend IPHIE

This past July, Drs. Joyce Mitchell and John Hurdle and students Guilherme del Fiol, Spencer Jones, Laritza Taft, and Jacob Tripp traveled to the University for Health Sciences, Medical Informatics and Technology (UMIT) in Hall, Austria for the annual IPHIE Master Class.

The Master Class brought together students from six universities: three in Europe and three from the U.S. The program included presentations from each University, guest lecturers, and student group work. Dr. Mitchell, Guilherme, and Spencer gave brief presentations. Each student was put in a

student work group with one student from each program to analyze and present a research paper at the end of the week. The group also traveled to nearby Innsbruck to see the local hospital and learn about the healthcare IT systems in place.

The Master Class also included a wonderful social program and the participants toured the Old Town sections of both Hall and Innsbruck, went hiking in the Alps, and enjoyed delicious meals. The participants enjoyed establishing friendships with informatics students from two continents and felt that this was one of the most rewarding aspects of the Master Class.

(Thanks to Jacob Tripp for this write-up and the photo below.)



Participants in IPHIE Master Class pose with magnificent Alps in the background. Included in the picture, from the University of Utah, are Dr. Joyce Mitchell, front row; Dr. John Hurdle, third from the left in the second row; student Laritza Taft, second from the right in the second row; and in the middle back row with only faces or part of faces showing are students Spencer Jones, Jake Tripp, and Guilherme Del Fiol.

MedInfo 2007—Australian Walkabout Successful!

Australia (or the “Land of Oz” as the locals call it) held a marvelous MedInfo, August 20-24, and the University of Utah’s Department of Biomedical Informatics was well represented. With the large number of Utah folks attending, it came as good news that no one was carried off by Salties (Salt Water Crocodiles) or felled by the centimeter-long Irukandji Jellyfish; and no one ran screaming from the water caught in the grip of the Box Jellyfish; or died eating the delicious Blue Ring Octopus; or was mauled by that ancient relative of the ostrich – the cassowary; and let’s not get into what the local sharks and snakes could have done to our stalwart colleagues.

Instead, it rained a little in Brisbane and everyone worked diligently presenting their research and attending the topics of the day. Faculty members attending were Lewis Frey, Carole Gassert, Roberto Rocha, Catherine Staes, and Kathy Sward. Students attending were Martin Cryer, Scott DuVall, Vojtech Huser Senthil Nachimuthu, and Shobha Phansalkar. A list of posters and other presentations by BMI faculty and students will be included in the Presentations section in this newsletter.

The rain was a good thing, too. Otherwise, the Land of Oz may not have let everyone return home unscathed. So — farewell to that prehistoric land of the Wollemi Pine, and now on to Africa for MedInfo 2010; I’m sure there will be no dangers there. (Thanks to Lewis Frey for this write-up.)

PHIN Conference

Students and faculty from the department participated in the Fifth Annual Public Health Information Network (PHIN) Conference held in Atlanta, Georgia, August 26-30, 2007. Presentations were given by Matt Samore and Laverne Snow. As an outcome from class projects completed for the Public Health Informatics class, posters were presented by students who were in the class.

A poster by Lisa Wyman, Lisa Gren, Melissa Dimond, and Catherine Staes won 2nd place in the poster competition.

Poster presentations from our department are listed in the Presentations section of this issue.

Photo, right: Students from the University of Utah Department of Biomedical Informatics at MedInfo 2007 in Brisbane, Australia, from left to right: Laverne Snow, Martin Cryer, Scott DuVall, and Senthil Nachimuthu.



Update on recent BMI graduates

A number of students have graduated or completed their work at the University of Utah. Here is a list of recent graduates ... with their current positions or locations:

Andreas Biesdorf defended in Summer 2007. His thesis is titled: “From Bedside to Bench: A Translational Metamodel for Hospital Information Systems in Academic Medical Centers.” His committee chair was John Hurdle. He is currently in the PhD program at the University of Heidelberg in Germany.

Chengjian Che defended in Summer 2007. His thesis is titled: “Mining Frequent Order Sets.” His committee chair was Roberto Rocha. He is currently in the PhD program in the department of Biomedical Informatics at the University of Utah.

Dan Cramer completed a certificate in Summer 2007. He is currently employed at TheraDoc in Salt Lake City.

Kathryn Ellis defended in Spring 2007. Her dissertation is titled: “Critical Care Progress Note: A Study of the Documentation of Problems and Plans.” Her committee chair was Scott Evans. She is currently a Medical Informaticist at Intermountain Healthcare.

Abdou Salam Gueye defended in Summer 2007. His dissertation is titled: “Mapping Economic and Health Data: Integration and Analysis Challenges.” His committee chair was Matt Samore. He is currently working with the CDC in Ivory Coast.

Adi Gundlapalli defended in Summer 2007. His thesis is titled: “Computer-Bases Detection of Central Nervous System Syndromes

for Public Health Surveillance.” His committee chair was Matt Samore. He is currently working in Internal Medicine at the University of Utah.

Vojtech Huser defended in Fall 2007. His thesis is titled: “Analyzing Biomedical Data Sets Using Executable Graphical Models.” His committee chair was Scott Narus. He is currently completing final edits on his dissertation.

Shobha Phansalkar defended in Summer 2007. Her dissertation is titled: “Advanced Methods for Detection of Adverse Drug Events (ADEs) in Clinical Notes.” Her committee chair was John Hurdle. She is currently working for Partners Healthcare System in Boston, MA.

Shannon Sims defended in Spring 2007 and has graduated with a PhD. His dissertation is titled: “Evaluation of Informatics Methods for Public Health Surveillance of Adverse Drug Events.” His committee chair was John Hurdle. He is currently working with the American Medical Association in Chicago, IL.

Hong Ying Tang defended in Summer 2007. Her dissertation is titled: “Validating Prediction Models of Kidney Transplant Outcome using Local Data.” Her committee chair was John Hurdle. She is currently working at TheraDoc in Salt Lake City.

David Vawdrey defended in Spring 2007 and has graduated with a PhD. His dissertation is titled: “Automated Data Collection from Mechanical Ventilators in The Intensive Care Unit.” His committee chair was Reed Gardner. He is currently at Columbia University.

Department participates in Graduate School Fairs

Under the direction of **Dr. Scott Narus**, the BMI department presented booths at Graduate School Fairs during the week of October 22-26 at the following schools: Weber State University, Utah State University, Brigham Young University, Utah Valley State College, University of Utah and Westminster College. Undergraduate students at these institutions learned about the U of U programs.

BMI students representatives **Martin Cryer** and **Reid Holbrook** organized student volunteers to represent the department along with Dr. Narus, at the five fairs.

Veterans Affairs Career Development Award

Brian C. Sauer, PhD and Master's student in Biomedical Informatics, had his Veteran's Affairs Career Development Award accepted for funding. Starting in January, 2008 Brian will receive 5-years of funding to evaluate drug therapy monitoring practices and develop methods to improve drug therapy monitoring in the National VA Health Care System.

Grants

A one-year NIH grant subcontract with the Mayo Clinic has been awarded to **Nicola J. Camp**. The project, on which **Lisa A. Cannon-Albright** is a co-investigator, is titled "Genetic Epidemiology of Chronic Lymphocytic Leukemia (CLL)" and includes a consortium of six institutions, including MD Anderson Cancer Clinic, Mayo Clinic Cancer Center, the National Cancer Institute, University of California San Diego, University of Minnesota/Minneapolis VA and the University of Utah. The aim of the project will be to identify and recruit high-risk CLL pedigrees and perform a genome-wide search to identify genes involved in the susceptibility of CLL.

Dr. Camp also submitted a 4 year application of the same name for the October NIH cycle to continue the CLL project beyond the one-year subcontract.

Dr. Lisa Cannon Albright submitted a grant application through the Veteran's Administration titled "Creation And Analysis Of A Genealogy/Medical Phenotype Resource".. It is a 3-year project to build a genealogy for Utah and Massachusetts, link to all appropriate VA patients in these 2 states, and analyze phenotypes with sufficient sample sizes. A non-identifiable version of the genealogy data linked to the VA diagnosis data will be used for population-based analyses of the heritable contribution to health-related phenotypes.

Bruce Bray has begun a one-year fellowship at the National Library of Medicine, entitled "Knowledge Management."

An NIH grant was awarded to **Karen Eilback** in August, titled "Software to facilitate the adoption of the Sequence Ontology for genome annotation." This work will focus on building ontology aware software to enable groups to both provide and use Sequence Ontology compliant sequence annotations.

Co-Principal investigators, **Drs. Julio Facelli and Kristina Allen-Brady**, submitted a R21 application to NIH entitled, Discovery of Genetic Interactions that Indicate Predisposition to Multifactorial Disease. The project will develop tools for biomedical computing with the goal of distributing a useful, open-access tool within two years.

Drs. Julio Facelli, Kristina Allen-Brady and Lisa Cannon Albright, as co- PIs, submitted a R01 application to the NIH National Center for Research Resources. The "Distributed Genetic Analysis Workbench" will work to develop the first grid services environment for analytical tools for genetic epidemiology. It will be a critical component of the NCCR efforts to provide a comprehensive distributed computing infrastructure for translational research.

A 3-year contract with GlaxoSmithKline is currently being negotiated for which **Dr. Julio Facelli** will pursue a project titled "Crystal structure determination using X-ray powder diffraction, solid state NMR, and crystal structure prediction."

Dr. Lewis Frey continues to work actively with the NCI Cancer Bioinformatics Grid (caBIG). To date, he has been awarded a total of 6 separate tasks.

A resubmission of the Center for Clinical and Translational Science (CCTS) grant application is being prepared for November. The Biomedical Informatics component will provide infrastructure support for multiple research projects within the Health Science Center. In addition to supporting clinical research, clinical trials, translational science and Biomedical Informatics research, the component will also support the other infrastructure components of the CCTS (administration, biostatistics, education, regulatory, laboratory cores and community outreach). **Dr. Mitchell** will lead the BMI component. **Drs. John Hurdle, Stanley Huff, Peter Haug, Lisa Cannon Albright, Scott Narus, Stephane Meystre, Julio Facelli, Bruce Bray and Charlene Weir** will also play an active role on the project.

Joyce Mitchell is soon to be awarded funds by the NLM, to "Use the 'Information Rx' Process to Refer Parents of Newborns with Metabolic Conditions Identified by Screening to the Genetics Home Reference Web Site for Health Information: Pilot Project in Utah". **Denise Beaudoin** will work with Dr. Nicola Longo of the University Metabolic Clinic to complete the project.

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Mollie Poynton will be co-investigator for a grant with the National Institutes of Health, National Institute of Nursing Research, funded for September 2007 to August 2010, entitled "Predictive modeling of caller adherence to poison control center recommendations."

Dean Sorenson, along with co-investigator **Kathy Sward** and **Alan Morris** submitted a R01 application titled "Stand-alone to Web-based Bedside Decision Support to the NIH National Heart, Lung and Blood Institute." The project includes collaborations with Johns Hopkins University, Wake Forest, Intermountain Healthcare, Tufts University, Massachusetts General Hospital, and The University of Virginia and will develop and implement a web-based version of stand-alone bedside computer-based protocols.

Catherine Staes submitted an application to the Utah Department of Health, Chronic Disease Genomics Program for "Evaluation of Risk Scores from Family Health History".

The eight-month project has been funded and will include the effort of one of the Department's graduate students.

Catherine Staes is a co-investigator for the Centers of Excellence in Public Health Informatics grant awarded by the Centers for Disease Control & Prevention.

The Department of Defense has funded a two-year grant on which **Alun Thomas** is the PI. It is entitled "In Silico Genome Mismatch Scanning to Map Breast Cancer Genes in Extended Pedigrees". **Lisa Cannon Albright** and **Nicola Camp** are co-investigators. 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.

Presentations

Camp NJ, **Camp NJ**, **Werner TL**, **Cannon-Albright LA**. "Multiple Myeloma Chronic Lymphocytic Leukemia, Non-Hodgkin Lymphoma: Evidence for Overlapping Genetic Etiologies." Meeting presentation. International Genetic Epidemiology Society (IGES) Meeting. York, England. September 2007.

Albright FS, **Cannon-Albright LA**. "Genetic contributions to Chronic Fatigue Syndrome (CFS) and associated pain and fatigue-related diagnoses described in a population-based genealogical resource in Utah." Meeting presentation. International Association for Chronic Fatigue Syndrome. Fort Lauderdale, FL. January 2007.

Cannon-Albright LA. "Analysis of the Familiality of Sarcoma using the UPDB." Regional invited presentation. Sarcoma RIP Meeting at Huntsman Cancer Institute, Salt Lake City, Utah. February 2007.

Cannon-Albright LA. "Computerized Genealogies linked to Medical Histories for Research and Clinical Care— A National View." National invited presentation. Harvard I2B2 Working Group. Harvard University. Boston, Massachusetts. February 2007.

Cannon-Albright LA. "Genetic Contributions to Chronic Fatigue Syndrome (CFS) and associated pain and fatigue-related diagnoses described in a population-based genealogical resource in Utah." Regional invited presentation. Medical Provider Conference, Veteran's Administration Hospital. Salt Lake City, UT, May 2007.

Cannon-Albright LA. "Pedigree and Linkage Results in the Utah dataset." International invited presentation. Genomel Summer Mtg. Lund, Sweden. June 2007.

Cannon-Albright LA. "The Heritable Contribution to Lower Urinary Tract Symptoms." Meeting presentation. American Urogynecologic Society Scientific Meeting. Fort Lauderdale, Florida. September 2007.

Cannon-Albright LA. "Genotypes and Phenotypes: Databases and Diagnosis." International invited presentation. William K. Warren Jr. Frontiers in Neuroscience Conference. Tulsa, Oklahoma. October 2007.

Christensen GB, **Camp NJ** and the ICPCG. The SumLINK statistic for linkage analysis: An application to the ICPCG pooled linkage resource. Poster presentation. International Genetic Epidemiology Society Meeting 2007. (Also presented to the ICPCG meeting held in conjunction with the IGES.)

Poynton M, **Goldberg A**. (2007). "Project Collaborations at CSSS 2007: A Network Analysis." Podium and poster presentations, publication of paper in proceedings pending, at Complex Systems Summer School 2007. Santa Fe, NM: Santa Fe Institute. June 29, 2007.

Poynton M., **Beil H**, **BeLue R**, **Habibullah S**, **Mazzotta B**, **Shah V**. "Computer terminal placement and workflow in an emergency department: An agent-based model." Podium and poster presentations, publication of paper in proceedings pending, at Complex Systems Summer School 2007. Santa Fe, NM: Santa Fe Institute. June 29, 2007.

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Presentations, continued from page 6

Balbin A, Poynton M, Dwyer P, Angus S, Braynen W. "Genotype or phenotype? Imitation rules in social science and biology." Podium and poster presentations, publication of paper in proceedings pending, at Complex Systems Summer School 2007. Santa Fe, NM: Santa Fe Institute. June 29, 2007.

Poynton, MR. "Representation of smoking-related concepts in an electronic health record." Podium presentation. Board meeting of the Utah Health Research Network. Salt Lake City, UT. June 29, 2007.

Teerlink CC. "Predisposition to asthma among the Utah population." Invited presentation. Asthma and Genomics Conference, Utah Department of Health Asthma Program. Salt Lake City, Utah. June 2007.

Teerlink CC. "Genome-wide linkage analyses for asthma predisposition loci in extended pedigrees." Invited presentation. National Library of Medicine Training Conference, Stanford University. June 2007.

Thomas A. "Graphical modeling of the joint distribution of alleles at associated loci." International invited presentation. Statistical Methods for Genetic Epidemiology, Edinburgh, Scotland. May 2007.

Medinfo 2007, Brisbane, Aus., August 20-24

Cryer M, Frey L. "ca! Emergency and Disaster Recovery System Extensions to caBIG™." Poster presentation. Medinfo 2007. Brisbane, Australia. August 2007.

DuVall SL, Conrads J, Fraser A, Mineau G. Understanding the profile of errors that cause duplicate entries in a patient registry. Poster presentation. Medinfo 2007. Brisbane, Australia. August 2007.

Gassert C, Sward K. "Phase I Implementation of an Academic Medical Record for Integrating Information Management Competencies into a Nursing Curriculum." Panel presentation. Medinfo 2007. Brisbane, Australia. August 2007.

Gassert C, Saranto K, Curran C, **Staggers N, Chang J.** "Using a Master List of Nursing Informatics Competencies in Education, Practice and Research Settings." Panel presentation. Medinfo 2007. Brisbane, Australia. August 2007.

Huff S. "Creating and Employing EMRs: It's harder than it looks." Tutorial presentation. Medinfo 2007. Brisbane, Australia. August 2007.

Lau LM, Lam SH, **Shakib S.** "What True Interoperability Means." Poster presentation by **Nachimuthu S.** Medinfo 2007. Brisbane, Australia. August 2007.

Nachimuthu S, Lau LM. Practical Issues in Using SNOMED CT as a Reference Terminology. Paper presented by **Nachimuthu S.** Medinfo 2007. Brisbane, Australia. August 2007.

Phansalkar S, Sward K, Weir CR, Morris AH. "Mapping Clinicians' Perceptions about Computerized Protocol Use to an IT Implementation Framework" Paper presentation. MedInfo2007. Brisbane, Australia.

Poynton MR, Frey L, Tang H. "Representation of smoking-related concepts in an electronic health record." Poster presentation with publication of abstract in proceedings. Medinfo 2007. Brisbane, Australia. August 2007

Shakib S, Lau LM. "Making Standard Terminologies Operational in the Electronic Health Record." Poster presentation by **Nachimuthu S.** Medinfo 2007. Brisbane, Australia. August 2007.

Staes CJ; Evans RS; Narus S; Huff S; Sorensen J. "System analysis and improvement in the process of transplant patient care." Meeting presentation. MedInfo2007. Brisbane, Australia. August 2007.

PHIN conference, Atlanta, GA, August 26-30

Gundlapalli A, Hill M, Price A, Risk I, **Samore M, Staes C.** "Evaluation of a Local Health Department Surveillance System for the Early Detection of Meningococcal Meningitis." Poster session presentation. 5th Annual Public Health Information Network (PHIN) conference, Atlanta, GA. August 27, 2007.

Mayer J, Risk I, Hill M, **Staes C.** "Evaluation of a school-based varicella surveillance system: What are the opportunities and informatics needs?" Poster session presentation. 5th Annual Public Health Information Network (PHIN) conference, Atlanta, GA. August 27, 2007.

Wyman L, Gren L, Dimond M, **Staes C.** "Evaluation of the Influenza Sentinel Provider Network surveillance system - Utah, 2006-07 Influenza season." Poster session presentation. 5th Annual Public Health Information Network (PHIN) conference, Atlanta, GA. August 27, 2007. (2nd place in the conference poster competition).

Snow LA, Samore M, Drews, F, et al. "Notifiable Disease Decision Making: Learning from Dynamic Information Board Search Strategies." Panel Presentation. 5th Annual Public Health Information Network (PHIN) conference, Atlanta, GA. August 27, 2007.

Snow LA. "Moving Towards Electronic Case Reporting." Moderator of concurrent session. 5th Annual Public Health Information Network (PHIN) conference, Atlanta, GA. August 27, 2007. (Also served on the national planning committee for the conference.)

Publications

Allen-Brady K. Genetic Polymorphisms and Metastatic Breast Cancer Survival. *Future Oncol.* 3(2):155-8.

Camp NJ, Cannon-Albright LA, Farnham JM, Baffoe-Bonnie AB, George A, Powell I, Bailey-Wilson JE, Carpten JD, Giles GG, Hopper JL, Severi G, English DR, Foulkes WD, Maehle L, Moller P, Eeles R, Easton D, Badzioch MD, Whittemore AS, Oakley-Girvan I, Hsieh C-L, Dimitrov L, Xu J, Stanford J, Johanneson B, Deutsch K, McIntosh L, Ostrander EA, Wiley KE, Isaacs SD, Walsh PC, Thibodeau SN, McDonnell SK, Hebring S, Schaid DJ, Lange EM, Cooney KA, Tammela TLJ, Schleutker J, Paiss T, Maier C, Grönberg H, Wiklund F, Emanuelsson M, Isaacs WB, and the International Consortium for Prostate Cancer Genetics. Localization of a Prostate Cancer Susceptibility Gene 22q12.3 by the International Consortium for Prostate Cancer Genetics. *Hum Mol Genet.* 16(11):1271-78.

Camp NJ, Farnham JM, Allen-Brady K, Cannon-Albright LA. Statistical recombinant mapping in extended high-risk Utah pedigrees narrows the 8q24 prostate cancer locus to 2.0 Mb. *Prostate.*67(13):1456-64.

Zintzaras E, Kitsios G, Kent D, **Camp NJ,** Atwood L, Hunt SC:(2007) Genome-wide scans meta-analysis for pulse pressure. *Hypertension.*50(3):557-64.

Maul JS, Burt RW, **Cannon-Albright LA.** A familial component to human rectal cancer, independent of colon cancer risk. *Clinical Gastroenterology and Hepatology.* 5(9):1080-84.

Christensen GB, Camp NJ, Farnham JM, Cannon Albright LA. (2007) Genome wide linkage analysis for aggressive prostate cancer in Utah high risk pedigrees. *Prostate:* 67(6):605-13.

Sjostrom C, Seiler C, **Crockett DK,** Tripp SR, Elenitoba Johnson KS, Lim MS. Global proteome profiling of NPM/ALK-positive anaplastic large cell lymphoma. *Exp Hematol.* 2007 Aug;35(8):1240-8. Epub 2007 Jun 7. PMID: 17560012

Schumacher JA, **Crockett DK,** Elenitoba-Johnson KS, Lim MS. Proteome-wide changes induced by the Hsp90 inhibitor, geldanamycin in anaplastic large cell lymphoma cells. *Proteomics.* 2007 Aug;7(15):2603-16. PMID: 17610208

Bohling SD, Jenson SD, **Crockett DK,** Schumacher JA, Elenitoba-Johnson KS, Lim MS. Analysis of gene expression profile of TPM3-ALK positive anaplastic large cell lymphoma reveals overlapping and unique patterns with that of NPM-ALK positive anaplastic large cell lymphoma. *Leuk Res.* 2007 Aug 24; [Epub ahead of print] PMID: 17720243

Wallentine JC, Kim KK, Iii CE, Vaughn CP, **Crockett DK,** Tripp SR, Elenitoba-Johnson KS, Lim MS. Comprehensive identification of proteins in Hodgkin lymphoma-derived Reed-Sternberg cells by LC-MS/MS. *Lab Invest.* 2007 Sep 17; [Epub ahead of print] PMID: 17876297

Calderon FR, Phansalkar AR, **Crockett DK,** Miller M, Mao R. Mutation database for the galactose-1-phosphate uridyltransferase (GALT) gene. *Hum Mutat.* 2007 Oct;28(10):939-43. PMID: 17486650

Easton DF, Deffenbaugh AM, Purss D, Frye C, Wenstrup RJ, **Allen-Brady K,** Tavtigian SV, Monteiro AN, Iversen ES, Couch FJ, Goldgar DE:(2007)A Systematic Genetic Assessment of 1,433 Sequence Variants of Unknown Clinical Significance in the BRCA1 and BRCA2 Breast Cancer-Predisposition Genes. *Am J Hum Genet.* 81(5):873-83.

Goldstein AM, Chan M, Harland M, Hayward NK, Demenais F, Bishop DT, Azizi E, Bergman W, Bianchi-Scarra G, Bruno W, Calista D, **Cannon Albright LA,** , Chaudru V, Chompret A, Cuellar F, Elder DE, Ghiorzo P, Gillanders EM, Gruis N, Hansson J, Hogg D, Holland EA, Kanetsky PA, Kefford RF, Landi MT, Lang JM, Leachman SA, MacKie RM, Magnusson V, Mann G, Newton-Bishop J, Palmer JM, Puig S, Puig-Butlle JA, Stark M, Tsao H, Tucker MA, Whitaker L, Yakobson E, Study Group LM, Genomel MG. (2007) Features associated with germline CDKN2A mutations: A GenoMEL study of melanoma-prone families from three continents. *J Med Genet.* 44:99-106.

Horne BD, Camp NJ, Anderson JL, Mower CP, Clarke JL, Kolek MJ, Calquist JF: (2007) Multiple Less Common Genetic Variants Explain the Association of the Cholesteryl Ester Transfer Protein Gene with Coronary Artery Disease. *J Am Coll Cardiol.* 49(2):2053-60.

Gassert C. Teaching Outside the Box — Clinical Experts Square off Against Utah's Nursing Shortage. University of Utah Health Sciences Report. Fall 2007.

Horne BD, Camp NJ, Carlquist JF, Muhlestein JB, Kolek MJ, Nicholas ZP, Anderson JL:(2007) Multiple-polymorphism associations of 7 matrix metalloproteinase and tissue inhibitor metalloproteinase genes with myocardial infarction and angiographic coronary artery disease. *Am Heart J.* 154(4):751-8.

Hurdle JF, Adams S, Brokel J, Chang B, Embi P, Petersen C, Terrazas E, Winkelstein P; American Medical Informatics Association. A code of professional ethical conduct for the American Medical Informatics Association: an AMIA Board of Directors approved white paper. *J Am Med Inform Assoc.* 2007 Jul-Aug;14(4):391-3.

(Continued on next page)

Publications, continued from page 8

Clawson J, **Olola C**, Heward A, Patterson, B. Cardiac arrest predictability in seizure patients based on emergency medical dispatcher identification of previous seizure or epilepsy history. *Resuscitation* (2007), doi:10.1016/j.resuscitation.2007.04.029.

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Do you have items for the newsletter?

If you have items for the next newsletter you can submit them **at any time** up to the deadline (in January, exact date to be announced later) to Kathy Stoker at kathy.stoker@hsc.utah.edu. Items of interest include new grants and contracts, awarded or applications submitted; papers and publications published; talks and presentations given, participation in meetings, posters presented; work or research or awards or honors that show what BMI students and faculty are doing in the informatics community. For more information, contact Kathy at the above address or call her at (801) 585-3337.

Newsletter has new adviser

We are happy to announce that **Dr. Scott Narus** will serve as the adviser to the BMI Buzz newsletter.

Change of email address?

If your email address or other contact information changes, please contact BMI secretary JoAnn Thompson at joann.thompson@hsc.utah.edu. She keeps track of student and alumni records and contact information.