

The BMI Buzz

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Issue 3



The University of Utah
Biomedical Informatics

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Spring Graduates

Graduates of the Department of Biomedical Informatics for the year were honored at a dinner held at the Alumni House on May 16, 2007. Some of them participated in the School of Medicine Commencement held on May 19th.

A list of the Spring graduates follows.

PhD Graduates:

Christopher Maloney. His dissertation title is: “Computerized Weaning of Childhood Respiratory Failure.” His committee included Joe Hales, Chair; Terry Clemmer; Guy Zimmerman; Mary Jo Grant; and Madolin Witte.

Shannon Sims. His dissertation title is “Evaluation of Informatics Methods for Public Health Surveillance of Adverse Drug Events.” His committee included John Hurdle, Chair; Linda Tyler; Scott Williams; Charlene Weir; and Christina Porucznik.

David Vawdrey. His dissertation title is “Automated Data Collection from Mechanical Ventilators in the Intensive Care Unit.” His committee included Reed Gardner, Chair; Frank Drews; James Orme; Terry Clemmer; and Scott Evans.

Steven Wilkinson. His dissertation title is “Computerized Ontology Methods to Teach Musculoskeletal Topics in Physical Therapy.” His committee included Reed Gardner, Chair; Ellen Spake; Steven Brown; and Sidney Thornton.

MS Graduate:

Gregory Thompson. His thesis title is “Evaluation of an Online Analogical Patient Simulation Program.” His committee included Michael Lincoln, Chair; Barry Stults; Matthew Samore; and Pierre Pincetl.

New faculty members

Dr. Julio Facelli joined the faculty of the Department of Biomedical Informatics on April 1 of this year as a professor in the Tenure track. Dr. Facelli has been an adjunct to the department since 2002.

Dr. **Stephane Meystre** has also joined the BMI faculty and will officially assume his post on July 1, 2007. Dr. Meystre will be an Assistant Professor in the Research track. He received his PhD from our department in 2005. He recently moved his family from Switzerland to prepare for this new position.

Bruce A. Houtchens, MD Award winner

Shannon Sims, MD, is this year’s recipient of the Bruce A. Houtchens, MD Award in Medical Informatics and Telemedicine. The award was presented at the department’s awards event on May 4, 2007. Although Shannon was not able to attend the presentation, he later received a certificate, an engraved clock, and a \$2,000 cash prize.

Shannon’s winning paper focused on the use of public health data sources to examine deaths related to methadone prescriptions for chronic pain.

The award was established in memory of Bruce A. Houtchens, M.D. Dr. Houtchens was a surgeon, physicist, mathematician, aeronautical and astronautical engineer, and a fine human being. His main interests included trauma surgery/critical care, space medicine, and clinical applications of telemedicine and biomedical informatics. It is hoped that this award will stimulate gifted students to open new horizons of medical technology, and seek better ways of integrating medical technology into medical education and clinical practice.

Alumni, Faculty - past and present, Students and Friends:

Join us! for the
35th Anniversary Celebration of the
Biomedical Informatics Department
held in conjunction with the
2007 School of Medicine Alumni Weekend
September 14th & 15th, 2007

The School of Medicine has planned a full weekend of events including a special celebration of the 35th anniversary for the Department of Biomedical Informatics.

Department events will take place on Friday, September 14 at the Spencer F. and Cleone P. Eccles Health Sciences Education Building, 26 South 2000 East (south of the Eccles Medical Library).

Breakfast will begin at 7:30 a.m. in the first floor student lounge outside of room 1750. The program will begin at 7:45 in room 1750, beginning with a welcome by Department Chair Dr. Joyce Mitchell and remarks by Sr. Vice President of Health Sciences Dr. Lorris Betz. Speakers will include Dr. G. Octo Barnett under the Reed M. Gardner Lectureship, Dr. Donald Lindberg, and Dr. Joyce Mitchell. The program is still in the planning stages, so additional speakers may be announced later.

A tour of the Health Sciences Education Building and a distance learning classroom demonstration will follow.

Evening events will be held at the Little America Hotel, 500 South Main Street.

A No Host Reception will begin at 6:30 p.m., with dinner and a program at 7:00 p.m. The program will include speakers Dr. Don Detmer; Drs. Reed M. Gardner and Homer Warner; and Drs. Dean Sittig and Gerasimos N. Petratos. The program will conclude with a presentation on Alumni, past events and memories, by Dr. R. Scott Evans.

School of Medicine Alumni Weekend events include a lunch and Alumni Open golf activity at Eagle Wood Golf Course beginning at noon on Friday, September 14; Saturday morning programs, and in the afternoon and evening, a tailgate party and attendance at the Utah vs UCLA football game.

Invitations with additional information about Alumni Weekend events will be mailed to SOM alumni and faculty.

The Biomedical Informatics Department will provide additional information about department Alumni Weekend events through email to students and alumni. Let us know if you are interested by emailing linda.galbreath@hsc.utah.edu.

Gardner Award for Faculty Excellence

Dr. John Hurdle was chosen as the recipient of The Reed M. Gardner Award for Faculty Excellence for the 2006-2007 school year. The award was presented in a special awards meeting on May 4th. The Gardner Award is a student-nominated, student-administrated award. The winner is chosen by a committee of students who review nomination materials submitted by other students in the Biomedical Informatics and Nursing Informatics programs. Nominees are evaluated for their contributions in teaching, mentoring, and service to the departments.

Dr. Hurdle has been on the faculty, first as an adjunct and now fulltime, in the Biomedical Informatics department since 2002. He has contributed greatly to the department during that time. He taught the core informatics course this past fall semester, and last spring facilitated a special topics course on data presentation. He chairs several students' research com-

mittees and serves as a member of numerous others. He has coordinated the seminar series, served on the faculty and curriculum committees, and has also been involved in writing grants for the department.

Beyond these notable contributions, many students noted that Dr. Hurdle has gone out of his way to help them feel welcome in the department. One student noted that, "After coming to [Salt Lake City] the first time John helped me to settle down, ... and was a great help with many things." Others mentioned his hosting of a Thanksgiving meal for the international students.

In addition to Dr. Hurdle, several other faculty members were nominated and considered for the award. They are: **Dr. Lisa Cannon-Albright, Dr. Bruce Bray, Dr. Nicola Camp, Dr. Scott Evans, Dr. Nancy Stagers, Dr. Kathy Sward, and Dr. Alun Thomas.**

IPHIE Master Class delegates chosen

IPHIE is the International Partnership in Health Informatics Education program. Each year the partnership presents a Master Class hosted by one of the partners which include UMIT – Institute for Health Information Systems, Universitat Heidelberg / Fachhochschule Heilbronn, Universiteit van Amsterdam, University of Minnesota, University of Washington, and the University of Utah. This year's Master Class will be

hosted by UMIT – Institute for Health Information Systems and will be held in in Hall, Tirol, near Innsbruck, Austria, from July 20 to 25.

Department Chair **Joyce Mitchell** and faculty member **John Hurdle** will attend with four students: **Guilherme Del Fiol, Spencer Jones, Laritza Taft, and Jacob Tripp.** Dr. Hurdle, Guilherme Del Fiol and Laritza Taft will be presenting abstracts as part of the Master Class program.

Infofair 2007

The annual Infofair sponsored by the Spencer S. Eccles Health Sciences Library and the Department of Biomedical Informatics and sponsored by the University of Utah Health Sciences Center was held on Tuesday, April 10, 2007 at the Spencer F. and Cleone P. Health Sciences Education Building. The theme was "From a Distance," focusing on distance education. The program included a display of posters; a distance

education panel discussion (which included panelist **Scott Narus** from the BMI department); and presentations on topics related to the implementation of distance learning. The keynote Clifford C. Snyder, M.D. and Mary Snyder Lecture speaker was Sarah C. Michalak, Associate Provost for Libraries and University Librarian, University of North Carolina at Chapel Hill.

Spring AMIA Congress

Students **Scott DuVall, Reid Holbrook, Shobha Phansalkar, and Laverne Snow**, along with faculty members **Dr. Catherine Staes, Dr. Matthew Samore, Dr. Julio Facelli, and Dr. Mollie Poynton**, attended the Spring Congress of the

American Medical Informatics Association held in Orlando, Florida, May 20 through 24.

Presentations and participation by University of Utah representatives are listed in the Presentations section of this newsletter.

NLM Meetings

The annual Informatics Training Meeting for the National Library of Medicine will be held at the Stanford University campus in Palo Alto, California, June 26-27, with additional meetings for the public health informaticists on June 25. Faculty and students from the BMI department will be attending and/or presenting at the meetings.

Phi Kappa Phi nominees announced

Michael D. Buck, PhD, and Shannon Sims, MD, PhD, were nominated for Phi Kappa Phi. Nominees to Phi Kappa Phi are students in the top 10 percent of their academic programs who exhibit qualities of leadership and campus and community involvement.

Pathfinder Award conferred

Dr. Homer Warner received a Pathfinder Award for lifetime achievements on April 19, 2007, at the 8th annual Edison Showcase at Salt Lake City's Little America Hotel.

Co-sponsored by the University of Utah's Office of Technology Venture Development and MountainWest Capital Network, the Showcase allows inventors, universities and the business community to display their technological innovations. The event also highlighted innovations generated under the the Utah Science, Technology and Research economic initiative, or USTAR.

Dr. Warner was the first chairman of the University of Utah's Department of Medical Informatics. He also pioneered many aspects of computer applications to medicine.

Scholarship to BMI faculty member

Dr. Mollie Poynton was granted a full scholarship to attend the Santa Fe Institute's Complex Systems Summer School in June 2007. The school is a four week intensive course in the study of complex behavior in mathematical, physical, living, and social systems.

Lister Hill Board appointment

Stanley Huff, MD, was named to the Lister Hill Center Board of Scientific Counselors for a 4-year term starting in July 2007.

Wayne Peay to retire

Wayne J. Peay, Director of the Spencer S. Eccles Health Sciences Library at the University of Utah, has announced his retirement effective October 1, 2007. Wayne has a long list of accomplishments, honors and awards. He administered the

planning and building of the Spencer F. and Cleone P. Eccles Health Sciences Education Building which was completed in 2005 and which houses the Department of Biomedical Informatics. Wayne is an adjunct to the BMI faculty.

Grants

Grants submitted:

Dr. Joyce Mitchell is the P.I. of a grant submitted to the NIH and entitled, "Utah-Texas Bridge to Biomedical Informatics Doctorate." This is a joint project with the University of Texas at Brownsville, and was coordinated by **Dr. Justin Clark**.

Laritza M. Taft, MD, has submitted a grant to the The Harold Amos Medical Faculty Development Program of the Robert Wood Johnson Foundation. The title is: Automatic Detection Methods for Adverse Drug Events in Labor and Delivery to Improve Patient Safety." The goal of this project is to develop, install and evaluate automatic detection tools for adverse drug events in patients in Labor and Delivery at Intermountain Healthcare Hospitals through the University of Utah.

Shannon Sims co-authored an Agency for Healthcare Research and Quality (AHRQ) grant proposal with PeaceHealth Oregon Region. The grant proposes to research the use of ambulatory electronic medical records to reduce outpatient adverse drug events.

Funded grants:

Notice of Grant Award has been received for **Lisa Cannon-Albright**'s National Library of Medicine research project. It

is a 4 year grant with an official start date of March 1, 2007. The title is "Analysis of the familial component to disease in a biomedical resource with linked genealogy." Its goal is to use a population-based genealogy of Utah linked to electronic medical data for over a decade, develop algorithms to assign phenotypes for health and disease-related traits, and examine evidence for a genetic contribution to these traits. **Stanley Huff** is a co-investigator on the project.

Lisa Cannon Albright will work as co-investigator on an NIH funded project with Peggy Norton to study the familiarity of Pelvic Organ Prolapse and Urinary Incontinence

Dr. Nicola Camp is co-PI on a grant application submitted with Dr. Angela Cox of the UK to The Royal Society International Incoming Short Visits Program. The grant has been awarded, and will defray some of Dr. Camp's travel costs to visit the UK this summer for collaborative work with Dr. Cox.

Nicola J. Camp has received notification from the Susan G. Komen Foundation that they will fund a 2 year grant (05/01/07-04/30/09) titled "The Role of Apoptosis Gene Variants in Familial Breast Cancer". The goal of the project will be to test the hypothesis that CASP8 and other genes of the apoptosis pathway act as low penetrance breast cancer genes.

Lewis Frey has been awarded two additional tasks on his caBIG contract. The Documentation and Training workspace awarded Dr. Frey a contract (Task 3) to put together training material on using caBIG. This training will focus on outreach to both informaticians and clinicians. The Vocabularies and Common Data Elements workspace renewed Dr. Frey's con-

Health Researchers present new ideas and research in unique forum

Over 100 participants joined us in the third annual Utah Health Services Research (HSR) Conference. This year's conference, "Utah Health Services Research Meets Public Health Informatics," was sponsored by the VA-Salt Lake IDEAS Center* in collaboration with the Departments of Biomedical Informatics and Medicine, the Utah Department of Health, the National Association of Health Data Organizations, the University of Utah Primary Care Research Center and the Governor Scott M. Matheson Center for Health Care Studies. Building on the successes of previous HSR conferences and last year's Public Health Informatics Symposium, faculty and students had a wonderful opportunity to present recent research results and discuss ways to improve the health of Utahns with other researchers from health care and public health.

Two well respected speakers, Drs. Steven Asch, MD, MPH, and Arthur Davidson, MD, MSPH, gave outstanding keynote addresses. Dr. Asch, who is a Rand health policy analyst, Associate Professor of Medicine, UCLA and from VA Greater Los Angeles spoke on the application of quality measurement systems to the reduction of under-use of necessary medical care, particularly in the areas of public health and communicable disease. Dr. Davidson, Director of Public Health Informatics at Denver Public Health bridged health services and public health informatics and shared some of his experiences as a leader in helping create Colorado's regional health information organization, CORHIO.

A meeting favorite was the boxed lunch session where conference participants shared informal conversations with health leaders includ-

ing Dr. David Sundwall, Executive Director of the Utah Department of Health. Several Department faculty and students presented their work including four DMI professors. **Drs. Catherine Staes and Charlene Weir** conducted workshops on public health informatics and research design. **Dr. Mollie Poynton** with **Dr. Lewis Frey** and **HongYing Tang** presented a poster on smoking-related concepts in an EMR and **Dr. Matthew Samore** joined Dr. Sundwall of the Utah Dept. of Health, and Jan Root, Assistant Director of UHIN** on a panel providing insights and reactions to the keynote presentation.

Several BMI students participated including **Michael Buck, Kevin Coonan, Spencer Jones, Brian Sauer and Shannon Sims** who presented in afternoon concurrent sessions. **Scott DuVall, Reid Holbrook, Sven Koch, Michael Newman, Stephen Piccolo, Tracy Robinson, and Kristina Thomas** joined other researchers in presenting during the poster session.

Special thanks go to conference co-chairs Dale G. Nelson and Jonathan Nebeker, MD, MS, of the VA-SLC IDEAS Center and planning committee members Denise Love, **Laverne Snow, Catherine Staes, Charlene Weir,** and Wu Xu.

Plans are underway for next year's meeting. If you have interest in participating in the planning process, please contact Catherine Staes at catherine.staes@hsc.utah.edu.

*VA Salt Lake City Informatics, Decision Enhancement, and Surveillance (IDEAS) Center.

**Utah Health Information Network.

Support Health Informatics legislation

The bill described following, if passed by the Senate, could be very important to the educational mission of the Department of Biomedical Informatics. Please support this legislation by contacting both of your senators and cc their legislative assistants on health.

HOUSE PASSES BILL TO BOLSTER HEALTH IT EXPERTISE IN WORK FORCE (HR 1467)

Health Imaging News | June 12, 2007 | Top Stories

From: <http://www.healthimaging.com/content/view/6713/89/>
<<http://www.healthimaging.com/content/view/6713/89/>>

The House of Representatives has passed the **10,000 Trained by 2010 Act (HR 1467)** which calls for bolstering the work force in this country to foster the development and implementation of health IT. It approves an investment of up to \$100 million in health care IT research and educational training in health care informatics. Congressman David Wu (D-Ore.) was the lead sponsor of the bill, with support from colleagues Phil Gingrey (R-Ga.), Bart Gordon (D-Tenn.), and Ralph Hall (R-Texas).

The bill would authorize the National Science Foundation to award grants to institutions of higher education that would develop and offer educational and training programs for healthcare workers and professionals in applied health and medical informatics. It would allow the Foundation to reward

schools that enhance their health IT programs. The American Medical Informatics Association (AMIA) and the American Health Information Management Association (AHIMA) have been big proponents of this legislation, and have raised hopes that the Senate and the president will soon enact this legislation "so that our nation can move toward the development of an educated work force that will be poised to use technology effectively, to continue to evolve the delivery of care to be safe, timely, effective, and equitable," according to a released statement from the organization.

"We are one step closer to fulfilling the promise of transforming healthcare with the passage of HR 1467," said Linda Kloss, MA, RHIA, AHIMA CEO. "This bill will not only provide the necessary funding to facilitate the development of healthcare informatics academic programs across the nation, but it will promote federal support of health IT and electronic health record systems adoption necessary to deliver patient-centered care."

Paul Tang, MD, AMIA board chairman, said of the bill, "We commend the House for its leadership in passing HR 1467 to create an educated healthcare work force that will be highly skilled in the use of electronic health record systems."

"This action brings the country closer to the goal of providing all patients with the safe, high-quality, cost-effective care they deserve," Tang added.

New BMI Student Rep

Martin Cryer has been elected to serve a two-year term as Student Representative for the Biomedical Informatics department, replacing **Laritza Taft** who has finished her term.

Martin will serve with representative **Reid Holbrook**, who will serve one more year.

Student Reps serve as spokespersons for student issues and liaisons between faculty, administration and students.

Presentations

Buck M. "A Multi-Institutional Study of Inappropriate Medications in Elderly Outpatients." Invited Research Seminar. Columbia University, Department of Biomedical Informatics. March 2007.

Buck M. "A Multi-Institutional Study of Inappropriate Medications in Elderly Outpatients." Poster Presentation at the University of Utah Center on Aging Research Retreat. University of Utah. April 2007.

Buck M. "A Multi-Institutional Study of Inappropriate Medications in Elderly Outpatients." Oral Presentation at the Utah Health Services Research Conference. University of Utah. April 2007.

Camp NJ, Werner TL, Cannon-Albright LA. "The Familiality of Multiple Myeloma in the Utah Population Database." 98th AACR Annual Meeting, Los Angeles, CA, April 14-18, 2007.

Camp NJ, Farnham JM, Cannon-Albright LA. "Further localization of the 8q24 prostate cancer locus to a 2.0 Mb region using Utah extended pedigrees." 98th AACR Annual Meeting, Los Angeles, CA, April 14-18, 2007.

Camp NJ. "Localization of disease genes using by-pedigree analysis." Invited presentation. Cancer Control Program at Huntsman Cancer Institute. Salt Lake City UT. May 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." Presented at the International Association for Chronic Fatigue Syndrome. Fort Lauderdale, FL, January 2007.

Cannon Albright LA. "Analysis of the familiarity of sarcoma using the Utah Population Database." Presented at the Sarcoma RIP Meeting at Huntsman Cancer Institute. Salt Lake City, UT. February 2007.

Cannon Albright LA. "Computerized genealogies linked to medical histories for research and clinical care – A national view." Presented to the Harvard i2b2 Working Group at Harvard University. Boston, MA. February 2007.

Jackson HH, Glasgow RE, Mulvihill SJ, Cannon-Albright LA. "Familial Risk in Gallbladder Cancer." American College of Surgeons Surgical Forum. Las Vegas, NV. April 2007.

Matthews RD, Neumayer LA, Cannon Albright LA. "Non-Medullary Thyroid Cancer and Relative Risk of Other Malignancy: An Analysis of the Utah Population Database and Utah Cancer Registry." American Associations of Endocrine Surgeons. Tucson, AZ. April 2007.

Cannon Albright LA. "Pedigree and linkage results in the Utah dataset." Invited presentation. Genomel Summer Meeting. Lund, Sweden. June 2007.

Gundlapalli A. "Improving Health Care Worker Staffing During an Influenza Pandemic: Insights from a Hospital-based On-line Survey." Poster Presentation. The Society for Healthcare Epidemiology of America (SHEA) Annual Meeting. Baltimore, April 2007.

Jones SS. "Quantifying Crowding in the Emergency Department." Western Regional Epidemiological Intelligence Service Conference. Salt Lake City, UT. March 2007.

Jones SS. "Forecasting Demand in the Emergency Department." Utah Health Services Research Conference. Salt Lake City, UT. April 2007.

Poynton MR. "Health Care Applications of Data Mining." Invited lecture. Brigham Young University Computer Science Department Colloquium. Provo, Utah. February 2007.

Samore M. "Academic Centers of Excellence in Public Health Informatics." Panelist at 2007 AMIA Spring Congress. Orlando, FL. May 2007.

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

Posters presented at the 2007 Spring AMIA Congress, Orlando, Florida, May 20-24, 2007, include:

Duvall, Scott. "Preserving Academic Poster Content."

DuVall, Scott. "Automatic, Near Real-time Reporting of Communicable Diseases"

DuVall, Scott. "An Information Model for Web Syndication of Communicable Diseases."

Holbrook, Reid. "Region-wide Collaboration on Newborn Screening Outcomes Surveillance."

Publications

Allen-Brady K. Genetic Polymorphisms and Metastatic Breast Cancer Survival. *Future Oncol.* (2007) Apr;3(2): 155-8. PMID: 17381415.

Goldstein AM, Chan M, Harland M, Harward 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-Butille JA, Stark M, Tsao H, Tucker MA, Whitaker L, Yakobson E, Study Group LM, Genomel MG. Features associated with germline CDKN2A mutations: A GenoMEL study of melanoma-prone families from three continents. *J Med Genet.* 2006 Aug 11[Epub ahead of print] PMID: 16905682

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

Gundlapalli AV, Olson J, Smith SP, Baza M, Hausam RR, Eutropius LJ, Pestotnik SL; Duncan K; **Staggers N; Pincetti P; Samore MH.** "Hospital electronic medical record-based public health surveillance system deployed during the 2002 Winter Olympic Games." *American Journal of Infection Control*, Volume 35, Issue 3, April 2007, pages 163-171.

Hurdle JF, Adams S, Brokel J, Chang B, Embi PJ, Petersen C, Terraxas E, Winkelstein P. A Code of Professional Ethical Conduct for the American Medical Informatics Association. *JAMIA preprint*; doi:10.1197/jamia.M2456, April 25, 2007.

Penz JFE, Wilcox A, Hurdle JF. Automated identification of adverse events related to central venous catheters. *Journal of Biomedical Informatics* 40 (2007) 174-182.

Phansalkar S. Assessing the utility of a cognitive approach to detect adverse drug events (ADEs) in clinical notes. *AMIA Spring 2007 Congress proceedings.*

Kang, S., **Poynton, MR.**, Kim, K., Lee, H., Kim, D., Bae, K., Linares, O. Kern, S., & Noh, G. Population pharmacokinetic and pharmacodynamic models of remifentanyl in Korean healthy volunteers using NONMEM and neural network analysis, *British Journal of Clinical Pharmacology.* Epub 2007 Feb 23.

Poynton MR., Justin S., Ellington L., Dudley W., Crouch B., Caravati M., & Williamson J. (2006). Matching waveform audio files with toxicall data: Record linkage in a poison control center. *Studies in health technology and informatics*, 122, 849. (abstract)

Poynton, MR & McDaniel, AM. (2006). Classification of smoking cessation status with a backpropagation neural network, *Journal of Biomedical Informatics* 39(6), 680-686. Epub 2006 Mar 24.

Vawdrey DK, Gardner, RM, Evans RS, Orme JF Jr., **Clemmer TP,** Greenway L, Drews FA. Assessing Data Quality in Manual Entry of Ventilator Settings. *JAMIA preprint*; doi:10.1197/jamia.M2219. February 28, 2007.

Welch SJ, Jones SS, Allen TL. "Mapping the 24-Hour Emergency Department Cycle to Improve Patient Flow." *Jt Comm J Qual Saf.* 2007;33:247-255.

Mitchell DR, **Mitchell JA.** Status of Clinical gene sequencing data reporting and associated risks for information loss. *J Biomed Inform.* 2007 Feb;40(1):47-54. Epub 2006 Mar 15.

Keller JM, Bezdek JC, Popescu M Pal NR, **Mitchell JA,** Hubbard JM. Gene Ontology Similarity Measures Based on Linear Order Statistics. *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems*, Vol. 14, No. 6 (2006), pp. 639-661.

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 April, 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.