BERM to showcase leading-edge adult stem-cell research

Imagine being in a car wreck and having part of your jawbone chip away during the accident. In some cases, doctors can repair the bone by performing an autologous bone graft, a procedure that replaces the missing bone with healthy bone taken from another part of your body.

But what if a synthetic material that simulated the formation of new bone could be used to replace the missing bone? UAB researcher Susan Bellis, Ph.D., is trying to create a bone-graft substitute with adult stem cells that would give patients and physicians a safer, less expensive alternative to bone grafts.

“Synthetic material is implanted in the place you lost bone, maybe from a fracture that isn’t healing, bone lesion, a congenital defect or cancer,” Bellis says. “That implanted material then would release certain biochemicals that encourage new bone to deposit on that material surface and fill that site with the patient’s own bone. That’s the broad objective of our research.”

Bellis’ work is one of many regenerative research projects under way in the BioMatrix Engineering and Regenerative Medicine (BERM) Center at UAB. She will showcase her research during the center’s one-day symposium, Stem Cells at the Interface of Engineering and Medicine. The event is from 8 a.m. to 5 p.m. Tuesday, Sept. 1 in the Doubletree Hotel.

The symposium will examine cutting-edge developments in the biology of hematopoietic, mesenchymal and induced pluripotent stem cells and engineering strategies to develop novel biomaterials and scale-up processes to bring stem cells to the clinic.

The symposium is free and open to the public, but enrollment is limited. For more information, visit the BERM Web site, http://www.uab.edu/berm.

Center for AIDS Research grant renewed, focus expands

A $7.5 million grant will enable UAB researchers to expand their work in the research, prevention and treatment of human immunodeficiency virus (HIV) and acquired immunodeficiency syndrome (AIDS).

The renewal grant from the National Institutes of Health confirms UAB’s place among an elite group of 20 CFARs nationwide in which doctors and scientists are engaged in broad-ranging research to boost detection and treatment of HIV.

“This award enables us to keep moving forward into those areas, projects and techniques used to fight HIV and adapt to and explore projects that I consider leading-edge or uncharted,” Michael Saag, M.D., director of the UAB Center for AIDS Research (CFAR), explains in this video.

“Our center has excelled in the basic science of HIV and now we’re doing the same in terms of patient care — advancing the message of HIV testing and prevention and taking our successes and care model into the developing world.”

The $7.5 million grant enables investigators to focus, expand and pursue their research goals and explore new ideas through multidisciplinary collaboration and shared resources available to center researchers and HIV teams. It will support CFAR’s nine cores, or shared projects: administrative, biosatistics, virology, clinical, developmental, DNA sequencing, flow cytometry, international, and behavioral science and prevention.

“One of the areas we plan to study is how HIV-infected patients are living longer — almost a normal life span when they are on effective therapy — but their aging seems accelerated,” Saag said. “Infected patients are getting dementia or heart disease or having heart attacks and other problems sooner in the aging process than we normally find in non-infected patients. That is going to be a big focus of the CFAR heading forward — evaluating the complications of living with HIV for a long time.”

DOE awards funding for physics fellowship program

The Department of Physics will receive $522,564 from the federal Graduate Assistance in Areas of National Need (GAANN) program for the next three years to support doctoral fellowships in nanoscience and computational physics.

UAB’s proposal was selected because it demonstrated that its Ph.D. students develop the skills necessary to fill science and technology jobs deemed future national needs by the federal government.

“This is a highly competitive award, and the recognition speaks to the national reputations of UAB and the Department of Physics,” Vohra says. The UAB physics program is one of 17 university physics programs nationwide to receive funding through GAANN, according to Department of Education public records.

The GAANN funding will support five Ph.D. students with the skills needed to fill science and technology jobs deemed future national needs by the federal government, according to Yogesh Vohra, Ph.D., who directs UAB’s GAANN project.

“Physicists receive only a small percentage of the recognition they merit,” Vohra says. “This will allow us to enhance our educational experience, attract the brightest students and recruit truly outstanding faculty.”

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The GAANN funding will support five Ph.D. students at a stipend level of $30,000 each per year through 2012. It also provides an annual educational payment of $3,152 per student for tuition and research costs.

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IDEA chair evaluation planned Sept. 8-29

Faculty are urged to participate in the IDEA evaluation of department chairs that is being facilitated by the UAB Faculty Senate. The online survey will be sent directly from the IDEA Center, and the survey will begin Tuesday, Sept. 8 and end Tuesday, Sept. 29. More information is on the Faculty Senate site at www.uab.edu/fsenate.

www.uab.edu/calendar provides online access to events

The new UAB Campus Calendar at www.uab.edu/calendar is the university’s primary source for promoting campus events, activities and deadlines, and the “Calendars” link on the UAB home page takes you straight there. UAB departments, groups and organizations are encouraged to submit events for publication directly from the site. Items can be submitted daily, and postings can include detailed information, photos and links to sites or related events. Simply click “Submit Event” and complete the fields as requested.

You can view all events happening on a selected day, week and month or narrow your choices to a specific school, venue or activity type. The features also enable you to add an event to your Outlook calendar, set a reminder, subscribe to an RSS feed or e-mail an event notice to a friend or colleague.

Frequently Asked Questions and descriptions of the special calendar listings will help you understand the calendar features and simplify event approvals.

New STAR resources available for students

Faculty and advisors may refer undergraduate and graduate students to the UAB Scholarship Tracking and Advising Resource (STAR), a searchable, online database of available scholarships and fellowships at star.uab.edu. STAR provides guidelines and advice, information about requirements, criteria, deadlines, profiles of past award recipients and individual, protected, electronic workspaces for registered applicants.

Students will use STAR to develop their applications, receive feedback, view sample applications, track deadlines and schedule meetings with the scholarship director.

Warehouse auction is set for Aug. 26

A public auction will be held 9 a.m. Wednesday, Aug. 26 to dispose of surplus used equipment in the University Stores Warehouse located at 1405 Second Ave. South. Items available for sale may be viewed Monday and Tuesday, Aug. 24-25. Registration will begin at 8:30 a.m. Aug. 26. A special chair and office furniture sale will take place at 9 a.m. Friday, Sept. 4. Direct questions to Equipment Accounting at 934-3344 or 934-5144.

Lunchtime focus on scream-free parenting

UAB employees and family are invited to attend the free wellness seminar Scream Free Parenting on noon Wednesday, Aug. 26 in the UAB Hospital West Pavilion Board Room.

The seminar will help parents examine practical principles for overcoming stresses and anxieties and teach them to stay calm and connected with children at all ages and stages.

Bring your lunch, and drinks will be provided. The program is offered at no charge and is open to UAB employees and their family. Call 934-2281 to register; space is limited. Visit www.uab.edu/wellness for information about this and other UAB Wellness Wednesday programs.

The Resource Center provides counseling and wellness programs for employees and their family.

Register for radiation safety training, exam

Occupational Health and Safety is offering a Radiation Safety Training Course for lab personnel who never have attended a formal course in radiation safety practices and/or those using radioisotopes for the first time. The in-class portion of the course will be held from 1 to 5 p.m. Tuesday, Sept. 1, and an examination will be given Friday, Sept. 11. Both will be held in Nursing Building Room G023-G024. Review the training manual online at www.healthsafe.uab.edu.

Call the Radiation Safety Office at 934-4751 or 934-2487 to register by Monday, Aug. 31.

Earn rewards, improve health in fall challenge

Take charge of your lifestyle and get rewarded during UAB EatRight’s fall Health Challenge that begins Sept. 1. Points will be awarded for positive changes in weight, improvements in blood pressure and more. Do it alone or with a team of up to five. Participants with the most points at the end of the challenge will receive great prizes. Visit www.eatright.uab.edu for more information on how to join, or call 934-7053.

Religious, ethnic holiday calendar online for planning

UAB is a diverse community that is respectful of myriad spiritual and cultural traditions. Faculty and staff are asked to consider annual ethnic and religious observances when scheduling exams, events and activities.

A calendar of these is featured each month on the Equity and Diversity Web site at www.uab.edu/equityanddiversity. Or you can download a PDF of the entire calendar year from the site.

Members of this year’s freshman class moved into Blazer Hall with help from their family, upperclassmen and other volunteers Saturday, Aug. 15. More than 900 freshmen moved in, carrying everything from television sets and microwave ovens to furniture and other comforts into home. UAB will have more than 2,000 residential students this year. “This is the most students we have ever housed on campus,” says UAB Director of Student Housing Marc Booker.
Cancer research, care makes Huh a ‘Lifesaver’ for women

UAB physician and researcher Warner Huh, M.D., has been selected as the recipient of the 2009 American Cancer Society Lifesaver Award, which is presented each year by the group’s Birmingham office. It recognizes a medical professional for extraordinary kindness, compassion and excellence as a caregiver.

“It is an enormous honor to receive this award, and I consider taking care of women in the state of Alabama with gynecologic malignancies to be a privilege and an opportunity to make a difference,” Huh says. “It is important to recognize that gynecologic cancer care is always a team effort, and my partners, nurses, fellows, residents and staff deserve as much recognition as I do.”

“Compassion, kindness and excellence tend to be reflection of one’s training and past experiences, and I also would like to credit my mentors at UAB for setting a fine example and high standards,” Huh said.

Huh is an associate professor in the UAB Division of Gynecologic Oncology and an associate scientist in the UAB Comprehensive Cancer Center. An expert in minimally invasive, robotic surgery, he was the first physician in Alabama to use a surgical robot to remove a woman’s cervical cancers. He began using minimally invasive, robotic surgery in June 2006 for women who require hysterectomies, hysterectomies with staging for endometrial cancers and radical hysterectomies for early-stage cervical cancer.

Huh also is a renowned researcher in human papillomavirus (HPV) vaccines and a notable contributor to the development of women’s cancer-screening and treatment guidelines. He was one of the first in Alabama to test Gardasil, the only cervical cancer vaccine that helps protect against four types of HPV.

“Gardasil is the first vaccine to be approved for cervical cancer prevention, which is a significant advancement. I am one of the founders of the Birmingham Vaccine Group and one of the co-lead investigators in the Gardasil clinical trails. This data has provided health-care providers, patients and parents important information on the overall safety and efficacy of this vaccine,” Huh says.

Huh spoke with the UAB Reporter recently about the advantages of minimally invasive, robotic surgery, HPV and research.

Q: What impact has the robotic sur- gery had on your treatment of uterine and cervical cancers?
A: In my honest opinion, robotic surgery has revolutionized how gynecologic oncolo-
gists approach minimally invasive surgery. It has allowed me to provide an unprec-edented number of women with a minimally invasive approach. Its impact on my prac-tice cannot be overstated.

Q: What are some advantages to this surgery for women with uterine and cervical cancers?
A: The main advantages are smaller inci-
sions, substantially less post-operative pain, quicker recovery, less blood loss and quick-er return to normal activity. This advantage is most notable in obese patients.

Q: What is HPV and how long has it been an issue for women?
A: Human Papillomavirus (or HPV) is one of the most common cancer-causing virus-es. Professor Harald zur Hausen, the recipi-ent of the 2008 Nobel Prize for Medicine, initially suspected a link between HPV and cervical cancer almost 30 years ago.

Q: Do we know enough about Gardasil now for parents to make informed decisions on whether or not to vaccinate their daughters?
A: This vaccine is really about prevent-ing cervical cancer and other important HPV-related diseases. From that perspec-tive, it is difficult not to provide your daughter with a true cancer-prevention vaccine that can have substantial protective benefits in her lifetime. Every time I see a new cervical cancer patient, I always wonder if this particular woman would be in my office if the HPV vaccine was offered or administered to her. Would I vaccinate my two daughters? Absolutely

Cervical cancer is a terrible disease that affects women and also has a ripple effect on their children, spouses and families.

Q: How much of an issue is the affordability of Gardasil? Are other vaccines being tested that may be less expensive?
A: Affordability does continue to be an issue for this vaccine, particularly in this state. However, the Cancer Center, our divi-sion and other pivotal groups are working hard to make this vaccine more readily available to everyone. I have a grant that focuses on developing a novel HPV vaccine that is substantially cheaper and will make global vaccination more affordable — par-ticularly in developing nations that cannot afford screening and expensive vaccination programs.

Q: Can a woman tell if she has HPV without undergoing a pap smear or other medical tests? If so, how?
A: HPV is largely an asymptomatic in-fection that is usually detected on Pap smears or HPV tests. The good news is that the overwhelming majority of HPN infections resolve spontaneously.

Q: What is the best way for women to be tested for HPV? Is there an age group more at risk than others?
A: There are currently two FDA-approved tests for HPV that specifically detect HPV types associated with cervical cancer. It is recommended by most professional groups and societies that women age 30 and older undergo concurrent Pap and HPV testing. With this approach, if both tests are nega-tive, she can repeat these tests every three years in lieu of yearly testing. Plus, the risk of developing cervical cancer during this time period is remarkably small.

Q: Are treatments being investigated or tested for women who have HPV that may enable them to avoid surgic-al procedures in which the infected part of the cervix is removed?
A: Yes, there are several trials testing novel agents that stimulate the immune system to recognize specific HPV genes as possible antigens. This will allow for less invasive procedures. In fact, we are about to start a trial in collaboration with Johns Hopkins that is testing one of these new immuno-therapies against HPV.

BERM

Continued from page 1

emount is limited to the first 100 registrants. Early registration is recommended; reg-istration closes Tuesday, Aug. 25. To pre-register, contact Meg Dowds at 996-6936 or dowdm@uab.edu. On-site registration will be subject to space availability.

Emerging fields

Tissue engineering and regenerative med-i-cine are emerging fields of biomedical research and clinical medicine focused on repair and regeneration of tissues damaged by trauma, injury or disease. The BERM Center is a collaborative alliance between the Department of Biomedical Engineering, the Center for Metabolic Bone Disease, the Cell Adhesion and Matrix Research Center and the High Resolution Imaging Facility. It was award-ed Pilot Center Status in 2006.

Tissue engineering and regenerative med-i-cine encompass diverse fields including biomaterials, drug delivery, cellular adhesion, matrix biology, stem cells, immu-nology, nanotechnology, gene therapy and others, says Timothy Wick, Ph.D., co-director of the BERM Center with Joanne Murphy and Joe Bivona, Ph.D. “The BERM Center capitalizes on UAB’s established strengths in matrix biology and emerging strengths in stem cell biology. 3-D cell and tissue culture, nano-structured biomaterials, tissue engineering and regen-erative medicine,” Wick says. “The close interface between biomedical engineering, physics, the basic sciences and the clinical research activities of both the schools of Medicine and Dentistry provide unique opportunities for us to develop an inter-nationally recognized program that will attract faculty, trainees, funding and local development of the biotechnology indus-try.”

Wick says the current research centers on regenerative tissue for teeth, spinal cord, cartilage, bone, blood vessels and the pan-creas.

Significantly improve treatment

The symposium will feature cell biologists, stem cell biologists and engineers to dis-cuss leading-edge research and approaches to challenges associated with developing technologies and accelerate use of stem-cell therapies in patients.

Bellis’ lab has been working in vitro and some in vivo, too. Their research has shown great promise in using synthetic material made of collagen and hydroxyapatite — two prominent components of native bone. “These synthetic matrices are a lot like bone in composition, so when they’re placed in the bone the body doesn’t see this as a foreign material; the body sees it as being like bone,” Bellis says. “We’ve shown that when you implant the synthetic material into bone in animal models you get very nice new bone growth directly on the surfaces of the synthetic matrices. Right now we’re working on modifying these matrices with biochemicals that will attract stem cells to the implant site and then stimulate these stem cells to turn into bone cells.

“We anticipate that this approach will accelerate bone healing,” Bellis says. Bellis’ research is one example of the impact tissue engineering and regenerative medicine research could have across many health spectrums. “Tissue engineering has the potential to significantly improve treatment for many acute conditions and chronic diseases for which there are currently inadequate or limited options to reduce mortality, mor-bidity and to improve the quality of life,” Bellis says. “In our case, if you could actu-ally repair these bone lesions with synthetic material instead of an autologous bone graft, that would be very helpful in the field.”

Register now to attend

The BERM Center is hosting the one-day symposium Stem Cells at the Interface of Engineering and Medicine from 8 a.m. to 5 p.m. Tuesday, Sept. 1 in the Doubletree Hotel registration closes Tuesday, Aug. 25.

To pre-register, contact Meg Dowds at 996-6936 or dowdm@ uab.edu. On-site registration will be subject to space availability.

A list of presenters is online.

August 24, 2009 UAB Reporter 3
Juanita Turner made quite a favorable impression on Carolyn Van Laar some 20 years ago simply by listening.

Turner’s actions during the past two decades continue to have a positive influence on Van Laar to this day. “Juanita is one of the most supportive, generous, responsible and helpful persons I’ve ever known,” says Van Laar, coordinator of clinical services for The Resource Center. “Whenever I was stressed out in graduate school, having difficulty with class scheduling or even needing information about the program or an upcoming event, she always was there with the answers.”

“I can’t remember an occasion when she didn’t take the time to provide assistance to me or other students.”

Turner, an office associate in Human Studies, always has shown a sense of calm, a desire to help others and the ability to get any job completed — traits her co-workers say make her worthy to be the Employee of the Month for August.

John Quenelle, J.D., counselor at The Resource Center, met Turner as a student working toward a master’s degree in counseling 15 years ago.

“She was a guide to me and any student who sought her advice on everything from directions to the classroom to how to get that one course I had to have or who to see to set up a practicum,” Quenelle says.

“Now, 18 years later, I’m flattered when I run into her and she still remembers me. I run into her on occasion since I’ve been working as a marriage and family therapist at The Resource Center these past 12 years. She has been very helpful to us in setting up programs and workshops that we need to coordinate with the counseling program, which we frequently do.”

Turner, who has been an office associate in Human Studies for all but nine months of her 27 years at UAB, works primarily with the counseling-education program. Her chief job is generating the class schedule for all but nine months of the Human Studies Program.

“This isn’t the first time Turner has been honored for her work; she has received the Outstanding Services Student Award, Dean’s Award and the Mary L. James Clerical Award from the School of Education during her time at UAB. Turner says she appreciates the compliments of her co-workers, students and former students. She says they are the reason she is here.”

“I love working with the students, the faculty and my co-workers,” Turner says. “I try to do everything within my power to help the students at any given time, whether it’s with class scheduling, if they’re lost — it doesn’t matter. And I work with a very good group of faculty in counseling and educational psychology, research, health education and physical education. They are all fantastic.”

Turner's reputation quickly spread to Marie Baisden, director of the Employee Assistance Program. Baisden first became aware of Turner from employees who had graduated from UAB with degrees in counseling. Baisden heard many stories of the ways Turner had helped students through difficult times.

After the Department of Counseling Education closed, Baisden got her first opportunity to “come face-to-face with the legend,” she says. Baisden had to find a way to provide CEUs for the counseling programs The Resource Center offered.

Patricia Sheets, program coordinator for the Counselor Education Program, led Baisden to Turner.

“She was everything I had heard,” Baisden says. “She was helpful, thoughtful and kind. If she said that she would do it, it happened.”

Sheets says the examples to support Turner's selection as Employee of the Month are numerous, but the most important, she says, is that Turner is a wonderful public relations ambassador for UAB.

“She is a model of a true professional,” Sheets says. “She has had a difficult year caring for a mother who has been seriously ill, but no matter what was going on in her personal life she never let anything drop at the office. She truly cares about our program and our students.”

Turner says her job is made easier and enjoyable because of the help of those around her. She credits her daughters Tamisha and Imani for their support at home, and she especially has high praise for co-workers Arlene Benson, an office associate in Human Studies, and Theresa Bloomer, an office services specialist in the Human Studies.

Turner recently missed time at work to care for her ailing mother, and she says Benson and Bloomer helped do her job in her absence.

“Arlene and Theresa were wonderful,” Turner says. “The work I couldn’t do here, they backed me up on it and never complained. It kept me from having to go back forth and forth between home and work. But that’s really how we are in the School of Education. We’re like a family, and we enjoy helping out one another.”

Wood named interim director of African-American Studies

A ssoicate professor of English Jacqueline Wood, Ph.D., has been named interim director of the UAB African-American Studies Program.

Wood succeeds Delitta Martin-Ogunsoa, Ph.D., who retired July 31.


Wood has published articles on contemporary black women dramatists Adrienne Kennedy and Suzan-Lori Parks in journals such as Studies in the Humanities, Journal of Dramatic Theory and Criticism, College Literature, The African American Review and The College Language Association Journal. She also edited a collection of Sonia Sanchez’s plays, “I’m Black When I’m Singing,” in Blue When I Ain’t and Other Plays by Sonia Sanchez,” published by Duke University Press, which is due out in 2010.

Dr. Wood

Being supportive, generous, responsible and helpful are just a few of the reasons Juanita Turner was selected Employee of the Month for August. If you know someone who should be Employee of the Month, send letters of nomination to Jason Turner at ju1rn1@uab.edu.

J ennifer Bloomer

CAMPUS NEWS

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J ennifer Bloomer

UAB wins NSF grant to train teachers to use XO laptops

A UAB wins NSF grant to train teachers to use XO laptops

A two-year grant of nearly $1 million was awarded to UAB from the National Science Foundation (NSF) to help Birmingham City School teachers incorporate XO laptop computers into the math and science curriculum.

The goal is to extend XO laptop use beyond word processing and Internet searches and to help increase the number of minority students entering the science, technology, engineering and mathematics (STEM) career pipeline, and associate professor of sociology Sheila Cotten, Ph.D., the principal investigator.

In 2008, the City of Birmingham and the Birmingham City Schools jointly provided 10,000 XO laptops to teachers and students in grades 4-8. The UAB researchers will work with fourth- and fifth-grade teachers to develop STEM curricula for use with the XO laptops and evaluate the effect on student learning and teacher and student confidence in using the computers. Researchers also will assess the change in students’ interest in STEM careers. The project will reach 160 teachers and 8,000 students and their families. Cotten says.

“The research project has the potential for broad impact by leveraging this unique opportunity to decrease the digital divide in Birmingham and influence more than 8,000 children in the Birmingham area,” Cotten says.

“By targeting fourth- and fifth-grade teachers and students, we expect to impact students’ engagement and preparedness in science, technology, engineering and math before they move into a critical educational and career decision-making process.”
Women

Women age 19-45 recently diagnosed (within 6 months) with rheumatoid arthritis may be eligible for a study to evaluate insulin resistance. Participants will receive a medical exam and a series of blood and urine tests. For information, call 4-1668.

Do you have atopy (hay fever, asthma, eczema) or atopic dermatitis (eczema)? If you do, you may qualify for a research trial being conducted at UAB. Call 4-8585/4-1467.

Are you a male or female? Do you get at least two times each night to urinate? If so, you may be eligible to participate in a 2–3 week study to test a new medication for nocturia (nighttime urination). Study medication is provided at no cost. Compensation: 3-4559/3-461-6131.

Are you a male or female? Are you at least 21 years old? Do you have chronic lymphocytic leukemia? If so, you may be eligible to participate in a 6-month study of a new drug to treat chronic lymphocytic leukemia. Participants will receive study medication and compensation. Compensation: 8-9310/8-9312.

Do you have any of the following symptoms related to UAB? If you do, you may be eligible to participate in a 6-month study of a new drug to treat chronic lymphocytic leukemia. Participants will receive study medication and compensation. Compensation: 8-9310/8-9312.

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For Sale

Appliances & Electronics
Sprint cell phone, model MD20, never activated, costs $140, will sell for $120. E-mail: rgarner@uab.edu.

Kenmore refrigerator, ice maker, $110, rarely used, new, includes charger, unit breaks down to fit in trunk, for $79. E-mail: glen@rascalauto.com.

Mobility scooter: Rascal Av Go, used very little, in exec battery, 681-354.

Tons of bridesmaids dresses: current styles, various prices. 434-9999. 807-1-9202. For sale are over 200 items, mostly Classic Rock from 70’s & 80’s. $100 for entire collection, not interested in selling individual items. Randy 5-6789.

Sports & Fitness
Harley Davidson 883 Sportster Motorl, used, like new, tank w/3,000 mi, lots of chrome, seat bag, key, shield, gas tank, black/gray accents lots of innovations.

1994 Jeep Grand cherokee 4x4 limited $6800. 621-8830.


Triumph 955i, 2002, 12000 mi, needs tune up, $2500.

Kittens free to good home. E-mail: dgl1700@gmail.com. 563-5383/283-9938.

Three baby cribs, chairs on rollers, asking $300/neg. 100 gal aquarium w/wood stand, asking $400; Hitachi 65” projection TV, bought new in 2007, ask $600. 200 gal, reverse osmosis, $225. 8’ foot hot tub/spa cover, $500. 35213; spacious, all applicances stay, great living space, new carpet, new paint, $49,900. 492-7091.

For Sale

Bass area home—3 BR BA, close to school, 3 min walk to porch, back porch, nice size yard, CHRA, nice kitchen, dining room, NW, new paint, near Park, $490. 479-2071.

For Sale:

Birmingham—$1 BR BA, 11A 11Don Daley Dr, 2BR/2BA, 1000 sqf, Hardwood floors, new carpet, $3512; spacious, all applicances stay, great living space, 4 miles to UAB, 747-6742/biweekly $150.

For Sale:

Birmingham—$3 BR BA 11A, 11Don Daley Dr, 2BR/2BA, 1000 sqf, Hardwood floors, new carpet, $3512; spacious, all applicances stay, great living space, 4 miles to UAB, 747-6742/biweekly $150.

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<table>
<thead>
<tr>
<th>Date</th>
<th>Opponent</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Sept. 5</td>
<td>RICE*</td>
<td>3:00 pm</td>
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<tr>
<td>Sept. 12</td>
<td>SMU*</td>
<td>3:00 pm</td>
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<tr>
<td>Sept. 19</td>
<td>at Troy</td>
<td>TBA</td>
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<td>Sept. 26</td>
<td>at Texas A&amp;M</td>
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<td>Oct. 1</td>
<td>SOUTHERN MISS*</td>
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<td>Oct. 31</td>
<td>at UTEP*</td>
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<td>FLORIDA ATLANTIC (HC)</td>
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<tr>
<td>Nov. 28</td>
<td>UCF*</td>
<td>12:30 pm</td>
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*C-USA OPPONENT  HOME GAMES IN ALL CAPS  All Times Central

FOR TICKETS, VISIT UABSPORTS.COM