

**UAB SCHOOL OF  
MEDICINE**

Department of Microbiology

## Microbiology Department Welcomes New Faculty Member



Meet Hui Hu, Ph.D., an immunologist focusing on transcriptional regulation of adaptive immunity—Tfh cell differentiation, GC responses, CD8<sup>+</sup> T cell quiescence/activation, T cell responses, immune memory and vaccines.

Hu, who comes to UAB from the Wistar Institute in Philadelphia, joined the microbiology department in May.

After receiving his doctorate from Stockholm University, Stockholm, Sweden, in 1998, Hu came to the US and began postdoctoral training at the Trudeau Institute. He then moved to the Center for Cancer Research at MIT, where he was a postdoctoral associate. In 2002, Hu joined CBR Institute for Biomedical Research (IDI) at Harvard Medical School. He was an instructor in the Department of Pediatrics at Harvard's Children's Hospital before moving to the Wistar

Institute in 2007. He worked for seven years at the Wistar Institute. Hu has received several awards and honors including the ACGT Young Investigator Award.

Hu's research at UAB will focus on how to induce a primary antibody response like a memory one. "The humoral immune response is one of the two effector arms of the immune system," explains Hu. "Studies have shown that CD4<sup>+</sup> T follicular helper (Tfh) cells are essential for long-lived, high affinity antibody responses. Yet the complex regulation that determines the initial development of Tfh cells, their developmental progression in germinal centers (GC), and their fates after an immune response dissolves, is still not fully understood. Recently, my research has shown that transcription factor Foxp1 is a rate-limiting and essential negative regulator of Tfh cell differentiation, drastically affecting GC and antibody responses (Nat. Immunol. 2014)."

"Usually your initial immune antibody response to an infectious agent takes about a week, and is relatively weak," Hu says. "Now we have found an important regulatory step that could allow us to induce antibody responses more faster-acting and effective. And in the other way around, we may also be able to significantly dampen the antibody responses that are unwanted in some cases of autoimmune diseases such as lupus." Hu's laboratory is also working to find a way to activate T cells under immunosuppressive cir-

cumstance. "Much of our understanding of molecular mechanisms regulating immune responses is centered on pathways and processes that promote cell activation, division and differentiation," says Hu. "My research has already demonstrated that cell-intrinsic signaling pathways are required to maintain mature T cells in a quiescent state (Nat. Immunol. 2011). If these pathways are disrupted, resting T cells become aberrantly activated even in the absence of antigen challenge. My next step is to identify regulatory genes and pathways that actively restrain T cell activation, and define the roles of such negative regulatory pathways in controlling T cell quiescence, effector responses, memory maintenance, and tumor immunology."

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### Faculty Retreat To Birmingham Botanical Gardens

Informative, beneficial, vibrant . . . these three words describe the 2014 Microbiology Faculty Retreat, which was held on Wednesday, May 14th at the Birmingham Botanical Gardens. Dr. Fran Lund, chair of the department says, "The turnout was great, and our discussion sessions were especially good this year."

The faculty retreat is a valuable event that focuses on the two major objectives of the department—scientific research and education. Dr. Louis Justement says that the event "provides a venue for the diverse faculty to share research and ideas regarding ways to improve the department. Basically, the retreat is very valuable because it fosters communication between the faculty and communication is the key to building collaborations and for making the department stronger."

This year's meeting included presentations from eight faculty members— Drs. Mark Walter, Fran Lund, Hubert Tse, George Luo, Peter Prevelige, Christopher Klug, Janusz Kabarowski and David Bedwell.

Justement says that "faculty presentations are very helpful in letting other faculty in different areas of microbiology learn about what their colleagues are

doing. It is also an opportunity to share new techniques and resources that are available within the department and at UAB."

The time spent together at the day-long event at one of Birmingham's most attractive meeting facilities was, indeed, informative, beneficial, and vibrant. "Hopefully some of the talks and discussions will lead to new shared opportunities for fun and exciting experiments," says Lund.



### 2014 UAB Pneumococcal Symposium

What began in the late 1990s with only three UAB labs (Briles, Yother and Hollingshead) participating has become a biannual symposium attended by more than 70 attendees from six southeastern research institutions:

UAB

Wake Forest School of Medicine

Mississippi State University

University of Georgia

University of Mississippi Medical Center

Alabama State University

This two-day symposium offers researchers an opportunity to share the latest developments in the field of pneumococcal research.

Distinguished speaker for the 2014 event was UAB microbiology alumni, William E. Swords, Ph.D. He discussed his research at Wake Forest School of Medicine, which focuses on understanding host-pathogen interactions that determine persistence vs. clearance in the airways.



### Saad Honored for Work with Undergraduates

Saad for receiving the [2014 Provost's Award for Faculty Excellence in Academic Engagement and Global Citizenship](#). He is one of only four faculty members campus-wide to receive this honor. The award recognizes UAB faculty members for engaging undergraduate students in research, creative activities, service learning, and study abroad activities.

## Employee Recognition Event

The following employees were recognized  
for years of service to UAB:

### 5 Years

Ruba H. Ghanam,  
Jessica D. Gunnin,  
Alexandra Samal

### 10 Years

Donald M. Dempsey,  
Enatra A. Hale,  
Janusz H. Kabarowski, Ph.D.;  
Kim M. Keeling, Ph.D.;  
Andries J. Steyn, Ph.D.

### 20 Years

Jun Tsao, Ph.D.;  
Qing Wei

### 25 Years

David M. Bedwell, Ph.D.;  
Gregory J. Harber;  
Wei-Fan Jia

### 30 Years

Peter D. Burrows, Ph.D.

### 35 Years

David E. Briles, Ph.D.

The following new faculty members  
were recognized:

**Hui Hu, Ph.D.,**  
Associate Professor

**Mengxi Jiang, Ph.D.,**  
Assistant Professor

**Amy Weinmann, Ph.D.,**  
Associate Professor

The following faculty were recognized for  
excellence in their field:

**David Briles, Ph.D.,**  
National Academy of Inventors, Fellow

**David Chaplin, M.D., Ph.D.,**  
Associate Dean for Faculty Development

**John F. Kearney, Ph.D.,**  
2013 Distinguished Faculty Lecturer  
and 2014 Distinguished Professor

**Jamil Saad, Ph.D.,**  
2014 Provost's Award for Faculty Excellence,  
Academic Engagement and Global Citizenship

**Janet Yother, Ph.D.,**  
2014 UAB President's, Diversity Award  
for Mentoring

The following trainees were  
recognized for exceptional  
research:

**Daide Botta** (Lund),  
2014 Postdoctoral Research Day,  
2nd Place, Session One

**Valeria Lulla** (Frolov),  
2014 Postdoctoral Research Day,  
3rd Place, Session Five

**Colin Reily, Ph.D.** (Novak),  
2014 Postdoctoral Research Day,  
1st Place, Session Five and Joy Cappel  
2014 Young Investigator Award

**Alexander Speer** (Niederweis),  
2014 Postdoctoral Research Day,  
2nd Place, Session Two

**Jim Sun** (Niederweis),  
2014 Postdoctoral Research Day,  
1st Place, Session Two

**Venkata Yeramilli** (Kearney),  
2014 Postdoctoral Research Day,  
2nd Place, Session Five

**Bliss Chang** (Saad),  
2014 Goldwater Scholar

**Shane Kelly** (Bedwell),  
2014 UAB SOM Art Show,  
Juror's Choice Award

**Miranda Collier** (Kabarowski),  
2014 Clarendon Scholarship

**Jocelyn Hauser** (Yother),  
NIH F31 Predoctoral Fellowship





### Research Leads to Study Abroad

Undergraduate student, Miranda Collier, a 2013 Goldwater Scholar working in Dr. Janusz Kabarowski's lab, received the 2014 Clarendon

Scholarship, which will enable her to pursue a Ph.D. at Oxford University.

Miranda worked with the interdisciplinary team of Drs. Janusz Kabarowski, Stephen Barnes, David Graves and Steve Watts to investigate dietary modifications of zebrafish lens crystallin proteins. Her research led to the development of specialized Mass Spectrometry Imaging method. In 2012 Miranda participated in the International Summer Research Project in the Department of Physical & Theoretical Chemistry at Oxford University, England.

You can read about Miranda's work with zebrafish in the UAB News article, "[Interdisciplinary UAB researchers collaborate to establish new imaging method.](#)"

### Dadali-Abel Receives Ph.D.

Graduate student Tulin Dadali-Abel (Lund lab) successfully defended her thesis in the Department of Pathology at the University of Rochester. The new Dr. Dadali will continue to work in the Lund lab for a few more months while she finishes writing her manuscripts.



### Reily Receives 2014 Joy Cappel Award

Dr. Colin Reily, a trainee in the Novak lab, received the Joy Cappel 2014 Young Investigator Award (JCYIA) at the Southeastern Immunology Symposium held June 7-8, 2014, at Emory University, Atlanta. The JCYIA has been created not only to honor the memory of Joy Cappel, Rockland's President and CEO, but also to nurture and support the advance of biomedical research in the US.

### Zumaquero Represents UAB at 2014 FOCIS



Congratulations to post-doctoral fellow Esther Zumaquero (Lund lab) who won the TSS Poster Distinction Award at FOCIS 2014.

Zumaquero was the UAB representative for this year's FOCIS (Federation of Clinical Immunology Society) trainee satellite symposia. She presented her work at the meeting in Chicago on June 25-28.

The FOCIS Centers of Excellence (FCE) are a network of academic medical centers that focus on interdisciplinary and translational education and research. (UAB is a FCE site.) Each FCE views trainee and fellow development as a top priority. The Trainee Satellite Symposium (TSS) is an exclusive function of the FCEs each year. Each FCE may send up to two trainees that are competitively selected by the FCE to receive a travel award to attend TSS and the FOCIS Annual Meeting.

Read more about FOCIS at:

<http://www.focisnet.org/2013-03-07-14-02-26/trainee-satellite-symposium#sthash.ndMafOSf.dpuf>



### Follow us on Twitter

Our Twitter account is an easy way for faculty, trainees, and staff to keep up with department activities. If you have information to share via

Twitter, send it to [erobnson@uab.edu](mailto:erobnson@uab.edu).

Follow us [@UABMicrobiology](#).

## New Hires

Meghan Ange, Lab Assistant, Green/Luo Lab

Jesse Erasmus, Visiting Scholar, Frolov Lab

Jianlin Geng, Ph.D., Post-Doctoral Fellow, Hu Lab

James Aaron Grubbs, Ph.D., Pediatric Fellow, Briles Lab

Sahar Hajitaheri, Laboratory Assistant, Niederweis Lab

Eliana Henderson Student Assistant, Weinmann Lab

Hui Hu, Ph.D., Associate Professor

Janan Jaraysi, Volunteer, Klug/Swindle Lab

Joshua Justice, Graduate Student, Jiang Lab

Avishek Mitra, Ph.D., Post-Doctoral Fellow, Niederweis Lab

Ludovic Perrochia, Ph.D., Post-Doctoral Fellow, Frolova Lab

Josephine Reynaud, Ph.D., Post-Doctoral Fellow, Frolov Lab

Katerina Robert, Volunteer, Klug/Swindle Lab

Carrie Sanders, Volunteer, Dokland Lab

Savannah Thompson, Student Assistant, Bedwell Lab

Brandy Verhalen, Research Assistant, Jiang Lab

Lei Zhang, Ph.D., Post-Doctoral Fellow, Niederweis Lab

## Useful Links

[Faculty Directory](#)

[Microbiology Newsfeed](#) **New!**

[Annual Retreat](#)

[Employee Site](#)

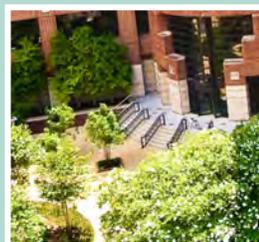
[Microbiology Seminar Series](#)

[BBRB Conference Rooms Schedule](#) **New!**

[Giving Opportunities](#) **New!**

## We're on the web:

<http://www.uab.edu/microbiology>



**University of Alabama at Birmingham  
Department of Microbiology**

845 19th Street South, BBRB 276-11  
Birmingham, Alabama  
35294-2170

## Public Defenses

### Haley L. Echlin

"Characterization of Glycosylation-associated Protein, Gap2, Required for the Biogenesis of *Streptococcus parasanguinis* Fimbriae-Associated Protein, Fap1"

Friday, June 6, 2014

Mentor: Hui Wu, Ph.D.

Committee: William Benjamin, Jr., Ph.D.; Moon Nahm, M.D.;

Michael Niederweis, Ph.D.; Janet Yother, Ph.D.

### Michael J. Lopker

"Transmitted/Founder SIV in the Rhesus Macaque Model of HIV-1 Infection."

Thursday, April 24, 2014

Mentor: George M. Shaw, M.D.

Committee: Louis B. Justement, Ph.D.; John C. Kappes, Ph.D.;

Brandon F. Keele, Ph.D.; Casey D. Morrow, Ph.D.;

Jamil S. Saad, Ph.D.

## UPCOMING EVENTS

### MICROBIOLOGY RESEARCH RETREAT

JOE WHEELER STATE PARK

OCTOBER 17-19, 2014

## Chair's Office Offers New Reimbursement Process

On April 1, the Chair's Office began offering reimbursement services for faculty and students. This service includes reimbursements for travel, recruitment, seminar speaker meals, and memberships. ***It does not include reimbursements related to the purchase of lab supplies.***

How do you go about using this service?

- First, find the central drop box that is mounted to the wall in the 2nd floor copy room (BBRB 260) -- just past the copy machine, down a short hallway, on the right hand side.
- Now, take a look at the folders in the drop box: 1) Forms; 2) Travel; 3) Recruit/Seminar Speaker Meals; 4) Memberships/Other.
- Look in the Forms folder and take a copy of the Micro Personnel Reimbursement Form. Then select a travel form for employees, or a travel form for guests, if applicable.
- Complete the appropriate section(s) of the Micro Personnel Reimbursement Form, and the appropriate travel form.
- Attach ***copies*** of your receipts and drop your completed form(s) in the appropriate box. That's all there is to it!

All reimbursements left during normal business hours will be processed within 48 hours, and you will be notified when your check is ready for pickup.

## Just Published

Bullard DC, Hu X, Crawford D, McDonald K, **Ramos TN, Barnum SR**. Expression of a single ICAM-1 isoform on T cells is sufficient for development of experimental autoimmune encephalomyelitis. *Eur J Immunol.* 2014 Apr; 44(4):1194-9. PMID: 24435747

**Bush DL, Monroe EB, Bedwell GJ, Prevelige PE Jr, Phillips JM, Vogt VM.** Higher-Order Structure of the Rous Sarcoma Virus SP Assembly Domain. *J Virol.* 2014 May; 88(10):5617-29. PMID:24599998

Danilchanka O, **Sun J, Pavlenok M, Maueröder C, Speer A, Siroy A, Marrero J, Trujillo C, Mayhew DL, Doornbos KS, Muñoz LE, Herrmann M, Ehart S, Berens C, Niederweis M.** An outer membrane channel protein of *Mycobacterium tuberculosis* with exotoxin activity. *Proc Natl Acad Sci U S A.* 2014 May 6; 6750-55. PMID: 24753609

Ding Y, Li J, Yang P, Luo B, Wu Q, **Zajac AJ**, Wildner O, Hsu HC, Mountz JD. [IL-21 Promotes Germinal Center Reaction by Skewing the Tfr/Tfh Balance in Autoimmune BXD2 Mice](#). *Arthritis Rheumatol*. 2014 Jun 6. PMID: 24909430

**Geno KA**, Hauser JR, Gupta K, Yother J. [Streptococcus pneumoniae phosphotyrosine phosphatase CpsB and alterations in capsule production resulting from changes in oxygen availability](#). *J Bacteriol*. 2014 Jun;196(11):1992-2003. PMID: 24659769

Hobin JA, Clifford PS, Dunn BM, Rich S, **Justement LB**. [Putting PhDs to Work: Career Planning for Today's Scientist](#). *CBE Life Sci Educ*. 2014 Spring; 13(1):49-53.

Hu X, Patel RP, Weinberg JA, Marques MB, **Ramos TN**, Barnum SR. [Membrane attack complex generation increases as a function of time in stored blood](#). *Transfus Med*. 2014 Apr; 24(2):114-6. PMID: 24588971

**Keeling KM**, Xue X, Gunn G, **Bedwell DM**. [Therapeutics Based on Stop Codon Readthrough](#). *Annu Rev Genomics Hum Genet*. 2014 Apr 18. [Epub ahead of print] PMID: 24773318

Kirylyuk K, **Novak J**. [The genetics and immunobiology of IgA nephropathy](#). *J Clin Invest*. 2014 Jun 2; 124(6):2325-2332. PMID: 24892706

**León B**, Bradley JE, Lund FE, Randall TD, **Balteseros-Tato A**. [FoxP3+ regulatory T cells promote influenza-specific Tfh responses by controlling IL-2 availability](#). *Nat Commun*. 2014 Mar 17;5:3495. PMID: 24633065

**Mestecky J**, Wei Q, Alexander R, Raska M, **Novak J**, Moldoveanu Z. [Humoral Immune Responses to HIV in the Mucosal Secretions and Sera of HIV-Infected Women](#). *Am J Reprod Immunol*. 2014 Jun; 71(6):600-7. PMID: 24494997

**Ramos TN**, Bullard DC, Barnum SR. [ICAM-1: isoforms and phenotypes](#). *J Immunol*. 2014 May 15; 192(10):4469-74. PMID: 24795464

**Ramos-Summerford TN**, Barnum SR. [Experimental cerebral malaria: the murine model provides](#)

[crucial insight into the role of complement](#). *Trends Parasitol*. 2014 May; 30(5):215-6. PMID: 24698528

**Rodenburg CM**, McPherson SA, Turnbough CL Jr, Dokland T. [Cryo-EM analysis of the organization of BclA and BxpB in the Bacillus anthracis exosporium](#). *J Struct Biol*. 2014 Apr; 186(1):181-7. PMID: 24607412

Schmitt R, Ståhl AL, Olin AI, Kristofferson AC, Rebetz J, **Novak J**, Lindahl G, Karpman D. [The Combined Role of Galactose-Deficient IgA1 and Streptococcal IgA-Binding M Protein in Inducing IL-6 and C3 Secretion from Human Mesangial Cells: Implications for IgA Nephropathy](#). *J Immunol*. 2014 May 21. PMID: 24850720

Umiker BR, Andersson S, Fernandez L, Korgaokar P, Larbi A, Pilichowska M, Weinkauff CC, Wortis HH, **Kearney JF**, Imanishi-Kari T. [Dosage of X-linked Toll-like receptor 8 determines gender differences in the development of systemic lupus erythematosus](#). *Eur J Immunol*. 2014 May; 44(5):1503-16. PMID: 24500834

Vadesilho CF, Ferreira DM, Gordon SB, **Briles DE**, Moreno AT, Oliveira ML, Ho PL, Miyaji EN. [Mapping of epitopes recognized by antibodies induced by immunization of mice with PspA \(Pneumococcal surface protein A\) and PspC \(Pneumococcal surface protein C\)](#). *Clin Vaccine Immunol*. 2014 May 7; [Epub ahead of print] PMID: 24807052

Wang H, Geng J, Wen X, Bi E, Kossenkov AV, Wolf AI, Tas J, Choi YS, Takata H, Day TJ, Chang LY, Sprout SL, Becker EK, Willen J, Tian L, Wang X, Xiao C, Jiang P, Crotty S, Victora GD, Showe LC, Tucker HO, Erikson J, **Hu H**. [The transcription factor Foxp1 is a critical negative regulator of the differentiation of follicular helper T cells](#). *Nat Immunol*. 2014 May 25. [Epub ahead of print] PMID: 24859450

**Xue X**, Mutyam V, Tang L, Biswas S, **Du M**, Jackson LA, **Dai Y**, Belakhov V, Shalev M, Chen F, Schacht J, J Bridges R, Baasov T, Hong J, **Bedwell DM**, Rowe SM. [Synthetic aminoglycosides efficiently suppress cystic fibrosis transmembrane conductance regulator nonsense mutations and are enhanced by ivacaftor](#). *Am J Respir Cell Mol Biol*. 2014 Apr; 50(4):805-16. doi: 10.1165/rcmb.2013-0282OC. PubMed PMID: 24251786.

Yanagawa H, Suzuki H, Suzuki Y, Kiryluk K, Gharavi AG, Matsuoka K, Makita Y, Julian BA, **Novak J**, Tomino Y. [A panel of serum biomarkers differentiates IgA nephropathy from other renal diseases](#). *PLoS One*. 2014 May 23; 9(5):e98081. PMID: 24858067

**Zajac AJ**, Harrington LE. [Tissue-resident T cells lose their SIP1 exit visas](#). *Cell Mol Immunol*. 2014 May; 11(3):221-3. PMID: 24561454

Zeng Q, Ng YH, Singh T, Jiang K, Sheriff KA, Ippolito R, Zahalka S, Li Q, Randhawa P, Hoffman RA, Ramaswami B, **Lund FE**, Chalasani G. [B cells mediate chronic allograft rejection independently of antibody production](#). *J Clin Invest*. 2014 Mar 3;124(3):1052-6. PMID: 4509079

Zhang S, Ranganath NK, Skinner D, **Bedwell DM**, Buckley-Lanier JA, Sorscher EJ, Woodworth BA. [Marked repression of CFTR mRNA in the transgenic Cfr\(tm1kth\) mouse model](#). *J Cyst Fibros*. 2014 May; 13(3):351-2.

## Grants/Contracts

### New Awards

**Briles, D**, PATH VACCINE SOLUTIONS, Sixth Project Plan, Detection of Protective Antibody with ModOPKA Functional Assay

**Briles, D**, PATH VACCINE SOLUTIONS, Seventh Project Plan, Rabbit Antisera to R. Goldstein's Antigens

**Jiang, Mengxi**, Inhibikase Therapeutics, Investigate the Effects of Protein Kinase

### Recent Submissions

**Bedwell, David**

National Institutes of Health/DHHS

*New Nonsense Suppression Drugs to Treat MPS I*

**Green, Todd**, National Institutes of Health/DHHS, *Transcription and Replication in Nonsegmented Negative-Strand RNA Viruses*

**Jiang, Mengxi**, PML Consortium, *Mechanisms of JC Polyomavirus Penetration of the Blood-Brain Barrier*

**Kearney, John**, Juvenile Diabetes Research Foundation International, *Analysis of Human and Mouse Antibodies to Beta Cell Antigens Bearing N-Acetyl Glucosamine Post-Translational Modifications and their Potential to Prevent Human Type 1 Diabetes*

**Keeling, Kim**, National Institutes of Health/DHHS, *Proof of Mechanism Study for Translational Readthrough of Premature Stop Codons in the Hurler (W392X) in Vivo Mouse Model: Dose Dependent Study*

**Leon-Ruiz, Beatriz**, National Institutes of Health/DHHS, *Regulation of T Cell Responses to Allergens and Environmental Microbes*

**Lund, Frances E. / Stone, Sara**, National Institutes of Health/DHHS, *Regulation of Anti-Viral B Memory Responses by T-bet*

**Luo, Ming**, National Institute of Allergy and Infectious Diseases/NIH/DHHS, *Inhibitors Targeting Influenza Virus Transcription*

**Niederweis, Michael / Doornbos, Kathryn**, National Institute of Allergy and Infectious Diseases/NIH/DHHS, *Characterization of a Novel Toxin of Mycobacterium Tuberculosis*

**Niederweis, Michael / Steyn, Andries**, National Institutes of Health/DHHS/Kwazulu-Natal Research Institute for Tuberculosis and HIV, South Africa, *Functional Characterization of the Tuberculous Human Lung*

**Steyn, Andries**, National Institutes of Health/DHHS, *Redirecting Host Energy Metabolism for the Control of TB*

**Walter, Mark**, National Multiple Sclerosis Society, *Single Cell Measurement of IFN $\beta$  Signaling in MS Patients*

**Zajac, Allan J / Kahan, Shannon**, American Cancer Society, Inc., *Customizing Optimal Protective CD8 T Cell Responses*

## Around Campus and About Town

### Alabama Wildlife Center's

#### Baby Bird Season

March 15, 2014 to September 15, 2014

Every day, 9am – 5pm

Oak Mountain State Park

Watch the care of Alabama native wild bird patients in the nurseries, solarium and raptor flight cages via camera monitors or one-way glass viewing windows. Visitors never knows from one day to the next who the patients will be. Free after paid park admission



### Zip line Adventure

August 16, 2014

Fort Payne, Alabama

Zip over 250 feet of Alabama wilderness. Each person gets up to 2 to 3 zips.

\$20/person (1 Person \$80.00 – 2 People \$40.00each – 3 People \$26.67each – 4 or more People \$20.00each)

### Alabama State Parks

#### 75th Anniversary Celebration

July 4, 2014

DeSoto State Park

Fort Payne, Alabama

Free admission

### City of Pelham's Golden Jubilee

July 11-12, 2014

Join the City of Pelham in their celebration of 50 years as a incorporated city. Lots of food, music, shopping, ice skating, music and children's activities to suit every interest.

Free admission

